

RAPID RESPONSE QUALITY CONTROL DAILY REPORT		
Contractor's Name: T N & Associates		
Contract Number: <b>DACA45-00-D-0006</b>		
Site Name & Location: Pemaco; Maywood, CA		
<p style="text-align: center;">INSTRUCTIONS</p> <p>The contractor shall submit this form daily at the close of business to the on-site COE representative. Concurrently, the contractor shall provide electronic access to the completed forms to the COE district office and the area office.</p>		
Report #: 20070501	Delivery Order #:06	Date: 5-01-2007
Weather: Partly Sunny	Temp. (max & min): 59- 75	Rainfall (in): .00
<p>1. Work performed today by primary contractor on site and/or off site:</p> <ol style="list-style-type: none"> <li>1) MP (TN&amp;A) on site at 0655 hours. Security was onsite. ERM, Jacob &amp; Hefner, CLEVECO and Bobcat Master on site. Safety meeting today was again a reminder about heavy equipment usage in the immediate area outside the TC Building, blind spots, etc. Also hearing protection when noise is above 85 dB inside the TC is mandatory. LFR/AIS crew was on site working on the expansion of the existing concrete pad at WW Henry compound.</li> <li>2) 0700 hrs Jacob &amp; Hefner changed out filter bags for F-401 (4 bags 10 micron changed out). Filter bags for F-403/F-404 were also changed out for the first time (2 bags 10 micron).</li> <li>3) 0810 hours Bob Lien (Anguil) on site to continue to work on FTO and preparing for FTO training today.</li> <li>4) 0845 JW on site.</li> <li>5) 0930 hrs to ~1830 hrs Dave Allen (TN&amp;A) continuing with decommissioning of the EISB Pilot study injection system components in ERH area.</li> <li>6) 1030 hrs Dave Bartz (Alzeta) on site.</li> <li>7) 1030 hrs to 1230 hrs training held on site with TN&amp;A, Jacob &amp; Hefner, ERM, Alzeta and Anguil personnel to go over the startup procedures for FTO.</li> <li>8) 1330 hrs technician arrived to work on the air compressor K-601. Replaced a module inside the compressor and tested system. The air compressor ran the rest of the day without an alarm #3.</li> <li>9) 1330 hrs to ~2130 hrs JW, MP, Bob (Anguil), Dave (Alzeta), Hector (TN&amp;A) and Edwin (EarthTech) worked inside the TC starting up and running the FTO. Started to pull vapors from VE-2 line. Also started to pull vapors from DPE-A line. Put the FTO through startup and shutdown procedures.</li> <li>10) ~1330 hours Rick Lainhart on site to meet with MP, JW and CLEVECO. Rick inspected the areas that were graded and rolled.</li> <li>11) 1430 hrs Neil (ERM) and Mark Williams (J&amp;H) demonstrated that P-502 works in both hand and auto modes.</li> <li>12) 1600 hr MP spoke to Mike hammer from HazMat Waste to get an update on the schedule to remove all empty 55 gallon drums on site. Will be advised of schedule to pick up drums on Wednesday 5/2/07.</li> <li>13) 1800 hrs MP left site. MP will be on site at 0700 hrs Wednesday to supervise the grading operations.</li> <li>14) Dust monitoring not performed today. The entire area was watered down today prior to beginning grading operations. The monitoring schedule includes 2 units placed at the following locations: 1) Upgradient - north side of ERH area, and 2) Downgradient - Northwest corner of Pemaco office trailer. A time-weighted average (TWA) of dust concentrations as well as maximum concentration (max.) recorded by each unit are indicated below:</li> </ol>		

**RAPID RESPONSE QUALITY CONTROL DAILY REPORT CONT'D.**

Area (Unit #)	Daily	
	<u>TWA (mg/m3)</u>	<u>Max (mg/m3)</u>
Downgradient (1135)	NA	NA
Upgradient (1010)	NA	NA

2. Work performed by subcontractors on site and/or off site (include a complete description):

Subcontractors:

**Clevenger Construction, Inc. (General subcontractor)**

07:00 AM ~ 5:00 PM (1/2 hour lunch)

(1 Superintendent two (2) field technicians)

**Equipment:** JD 210 LE Box grader, Wacker RD 25 dual drum vibratory roller, F-350, Hand tools, laser level

(No equipment was used today)

1. Mobilized a dual drum vibratory roller today. Supervised Bobcat Master and rest of crew during the grading operations today.

**Bobcat Master (Subcontractor for CLEVECO)**

7:00 AM ~ 5:00 PM (1/2 hour lunch)

(Two (2) Equipment Operators)

**Equipment:** 8 CY Dump truck, trailer, Bobcat with attachments, water truck, hand tools

2. Crew on site. One (1) operator on Bobcat and box grader (split time between the two pieces of equipment) and one (1) operator used vibratory roller and water truck. (split time between the two pieces of equipment).
3. Cut back grade near fence line interface, used dual drum vibratory roller and installed geotextile fabric on grade. Three loads of stone delivered today (Class II 3/4")
4. Grading is approximately 90% completed.

**EarthTech (Subcontractor)**

07:00 AM ~ 9:00 PM (1 hour lunch)

(1 Technician)

1. FTO training today.

**Work performed today by ERM and subcontractors on site and/or off site:**

Neil Coy (ERM) on site 0700 hrs to 1530 hrs to supervise J&H and work on punchlist items.

Jacob and Hefner provided two-man crew (Mark Williams and John Parkes) and operated the GW treatment system/exposition wells with the exception of DA-4.

Crew participated in the FTO startup training provided by Anguil and Alzeta today. (Day 7)

**Note:** Summary of Jacob & Hefner's daily log will be included as an attachment to this report beginning with today's report. Hours are as detailed on the Jacob & Hefner report attached. Note report will be provided 5/3/07 as J&H field log book is being updated by Mark Williams and is not available today.

3. Complete and attach the daily personnel cost report at the end of this document and label as Appendix 1.

[PROVIDED IN SEPARATE BINDER]

4. On-site conditions which resulted in delayed progress:  
None

**RAPID RESPONSE QUALITY CONTROL DAILY REPORT CONT'D.**

5. Type and results of inspections (indicate whether: P-Preparatory, I-Initial, or F-Final and include satisfactory work completed or deficiencies with action to be taken):

**Deficiencies** (Ongoing list and newly identified)

**From 3/15/07** Leak at steel nipple on bottom of T-404 at flange. During PM run-up of GW treatment system the leak was not visible during 1.5 hours of operation. Was tested during GW startup **4/10/07** did not see any leaks. Will leave on the list until system runs for a few days.

**From 4/4/07** PLC reporting function does not set up. There are other items from carbon mode testing/PLC acceptance walk through (not completed) currently being identified that are being reported on a list generated by John Wingate to be provided 4/5/07. See below:

**PLC Acceptance Test notes from 4/10/07**

John Wingate will provide a detailed list of comments from the activities and testing witnessed today in a separate document.

**4/10/07 DA-12** air leaking in well vault again. **4/17/07 DA-12** regulator was replaced with spare provided by TN&A. To be re-tested **4/23/07**. **4/23/07 GW system and exposition wells** were turned on today to begin the 30-day O/M period. DA-12 does not leak. Will check in AM **4/24/07**.

**4/16/07 Brine tank for water filters is overflowing onto floor.** Problem needs to be evaluated and corrected Problem was corrected **4/30/07**.

**4/20/07 P-502** would not run in Hand or Auto modes. PLC seems to be fine. Investigated today **4/23/07**. Ball check valve appears to be sticking. Crew reconfigured piping **5/1/07**. Pump ran in hand and auto modes.

**4/23/07 K-601** (Air compressor) shuts off automatically and sometimes will not turn back on without manual assistance. J&H to troubleshoot. Will review status **5/2/07**.

**4/23/07 Caustic Tank T-901** was indicating low level alarms  
As there was only 400 gallons of caustic delivered by ERM.

**Work Check List**

**Observed During April 10, 2007 PLC Acceptance Check**

Revised 5/01/07 1500 hours

Items in red not completed

1. Pipe Supports needed: Discharge from condensate pumps. **Completed 4/27/07.**
2. Program HMI screen to match colors of P&ID Drawings. (Previously requested.)  
**Mike Ebner working on 4/26/07 and 4/27/07. JW approved Monday 4/30/07.**
3. H-201 leaks in bottom gasket. See drip marks on frame as evidence. **Neil advised he corrected 4/26/07.**
4. Tag needed on H-202 valves ("Hot"). **"HOT" painted on side of H-202 4/26/07.**
5. DPIT/FE-101 is not reporting correctly on HMI screen. The pitot does not appear to be installed according to Dwyer Instruments recommendations and should be re-installed. (Currently installed in a tee) **Relocated by J&H 4/26/07.**
6. Check potable water pipes on south wall by roll up door for vibration during use. **OK per JW 4/26/07 pipes are at 10'6" and are adequately supported.**

**RAPID RESPONSE QUALITY CONTROL DAILY REPORT CONT'D.**

7. P-502 secondary containment sump pump failed second time, continued shakedown testing of this pump required. Or replace pump. **Neil advised the problem was corrected. Not witnessed 4/26/07 will ask Neil to show/prove on 4/27/07.** Pump P-502 works but there seems to be a problem with the check valves on the 2" line to the T-402 as sometimes there is flow and sometimes there is not flow when pump is put in hand mode. Pump would not work consistently again today 4/30/07. **Crew took apart discharge line within the sump and shortened the length of pipe to straighten out the flexible hose. Pump ran in hand and auto several times as demonstrated by ERM/J&H. Completed 5/1/07.**
8. Observation port (1.25 inch) identified on "Approved for Construction" Drawing C-10C, for all condensate sumps, was not installed and is required. It was needed to check water levels. **Completed 4/30/07.**

**Added to list 4/24/07:**

9. Lock out /tag out required for newly installed caustic fill line at T-901. **Completed 4/26/07.**
10. Brine tank leaks at hole located on side of tank closest to the floor. Ed Tung must be contacted by ERM. **Completed 4/30/07.**

**Added to list 4/25/07:**

11. Sample port tags at T-301/T-302 are in wrong positions. The correct identifications are written in marker pen on stainless steel valve near the tags. (SP-105, SP-106, SP-107 and SP-108). **Completed 4/26/07.**
12. T-601 auto-drain valve on bottom of tank (out of view) is leaking. **Completed 4/26/07.**
13. Valve adjacent to V-210 (on the line leading to holding tank for RC-201 on cooling tower pad) needs to be tagged out and labeled as "valve normally closed". **Completed 4/30/07.**
14. Discharge valve V-213 does not have tag. **Completed 4/30/07.**
15. Valves underneath the cooling tower need to be labeled/identified as "overflow /valve normally open" and "drain/ valve normally closed". **Completed 4/30/07.**
16. V-121 needs to open all the way it does not open all the way. It is currently locked in a partially open position. **Mark Williams took valve apart and showed MP that it seats fully. Completed 4/30/07.**
17. Label holding tank for RC-201. **Completed 4/27/07.**
18. Secure overhead water line known as "FTO Blowdown" at the 90 Deg. Ell above TIT-402 and PI-405. Thrust shakes pipe unacceptably. **Completed 4/27/07.**
19. Compressor maintenance to improve frequent low pressure alarm and error signal on compressor readout. J&H crew are already aware and have maintenance scheduled. Manufacturer's representative scheduled for Tuesday 5/1/07. Module was replaced 5/1/07. **Compressor ran without alarms for rest of day 5/1/07.**
20. Seal all building penetrations (electrical and piping penetrations). **Completed 4/30/07.**

**For Fire Department Inspection:**

21. **Install a NAOH fire placard on outside of building at entrance to all 4 doors.**

**RAPID RESPONSE QUALITY CONTROL DAILY REPORT CONT'D.**

Certification: I CERTIFY THAT THE ABOVE REPORT IS COMPLETE AND CORRECT AND THAT I, OR MY AUTHORIZED REPRESENTATIVE, HAVE INSPECTED ALL WORK PERFORMED THIS DAY BY THE PRIMARY CONTRACTOR AND EACH SUBCONTRACTOR AND HAVE DETERMINED THAT ALL MATERIALS, EQUIPMENT, AND WORKMANSHIP ARE IN STRICT COMPLIANCE WITH THE PLANS AND SPECIFICATIONS, EXCEPT AS NOTED ABOVE.

Mark Prostko

Contractor's designated quality control representative

# **RAPID RESPONSE QUALITY CONTROL DAILY REPORT**

Contractor's Name: T N & Associates

Contract Number: **DACA45-00-D-0006**

Site Name & Location: Pemaco; Maywood, CA

## **INSTRUCTIONS**

The contractor shall submit this form daily at the close of business to the on-site COE representative. Concurrently, the contractor shall provide electronic access to the completed forms to the COE district office and the area office.

Report #: 20070502

Delivery Order #:06

Date: 5-02-2007

Weather: Partly Sunny

Temp. (max & min): 61- 75

Rainfall (in): .00

### 1. Work performed today by primary contractor on site and/or off site:

- 1) MP (TN&A) on site at 0655 hours. Security was onsite. ERM, Jacob & Hefner, CLEVECO and Bobcat Master on site. Safety meeting today was communications and eye contact between the operators of heavy equipment (CLEVECO and Bobcat Master) and the plant personnel.
- 2) LFR/AIS crew was on site working on the expansion of the existing concrete pad at WW Henry compound. Poured 7 1/2 CY of concrete prior to 1200 hrs.
- 3) 0700 hrs to ~1730 hrs Dave Allen (TN&A) sampling wells in ERH area. Hector Cervantes on site at 0900 hrs to continue with FTO training and assist Dave Allen with sampling.
- 4) 0730 hrs MP met with Jacob & Hefner. Filter bags that were replaced yesterday AM in F-401 are still in use. The air compressor K-601 ran overnight without alarms.
- 5) 0815 hours Bob Lien (Anguil), JW and Dave (Alzeta) on site to continue to work on FTO and provide additional training to on site personnel. Bob and Dave worked on system interlocks from 0815 hours until 1400 hrs. No vapors were pulled from the system during this time period.
- 6) 1000 hrs smoke tested H-202 where thermocouples enter the unit and while the system was operating in carbon mode with B-301 and P-101/P-102 running.
- 7) 1400 hrs Dave (Alzeta) left the site.
- 8) 1530 hours FTO was fired up by JW and Bob (Anguil).
- 9) 1530 hrs MP and DA replaced filters (4 x 10 micron) in F-401.
- 10) 1630 MP tightened bolts on condensate sump lid VE-2. There is a leak in the condensate sump vault when vacuum is applied.
- 11) 1745 MP left site. JW, Hector and Bob still on site.
- 12) 1745 Mike Ebner taking over the system from remote location to work on PLC items.
- 13) Dust monitoring performed today. The entire area was watered down today prior to beginning grading operations. The monitoring schedule includes 2 units placed at the following locations: 1) Upgradient - north side of ERH area, and 2) Downgradient - Northwest corner of Pemaco office trailer. A time-weighted average (TWA) of dust concentrations as well as maximum concentration (max.) recorded by each unit are indicated below:

Area (Unit #)	Daily	
	<u>TWA (mg/m3)</u>	<u>Max (mg/m3)</u>
Downgradient (1135)	0.000	2.077
Upgradient (1010)	0.000	3.162

**RAPID RESPONSE QUALITY CONTROL DAILY REPORT CONT'D.**

2. Work performed by subcontractors on site and/or off site (include a complete description):

Subcontractors:

**Clevenger Construction, Inc. (General subcontractor)**

**07:00 AM ~ 4:00 PM (1/2 hour lunch)**

**(1 Superintendent two (2) field technicians)**

**Equipment: JD 210 LE Box grader, Wacker RD 25 dual drum vibratory roller, F-350,**

**Hand tools, laser level, plate compactor**

**(No equipment was used today)**

1. Supervised Bobcat Master and rest of crew during the grading operations today.
2. One technician operated plate compactor and one technician laid geotextile.
3. Approximately 8 loads of Class II material have been placed. Delivery tickets are being kept in the site trailer.

**Bobcat Master (Subcontractor for CLEVECO)**

**7:00 AM ~ 4:00 PM (1/2 hour lunch)**

**(Two (2) Equipment Operators)**

**Equipment: 8 CY Dump truck, trailer, Bobcat with attachments, water truck, hand tools**

4. One (1) operator on Bobcat and box grader (split time between the two pieces of equipment) and one (1) operator used vibratory roller and water truck. (split time between the two pieces of equipment).

**Work performed today by ERM and subcontractors on site and/or off site:**

Jesse Hottenstein on site 0700 hours to oversee Jacob & Hefner.

Jacob and Hefner provided two-man crew (Mark Williams and John Parkes) and operated the GW treatment system/exposition wells with the exception of DA-4.

(Day 8)

**Note: Summary of Jacob & Hefner's daily log will be included as an attachment to this report beginning with today's report. Hours are as detailed on the Jacob & Hefner report attached.**

3. Complete and attach the daily personnel cost report at the end of this document and label as Appendix 1.

**[PROVIDED IN SEPARATE BINDER]**

4. On-site conditions which resulted in delayed progress:  
None

5. Type and results of inspections (indicate whether: P-Preparatory, I-Initial, or F-Final and include satisfactory work completed or deficiencies with action to be taken):

**Deficiencies** (Ongoing list and newly identified)

**PLC Acceptance Test notes from 4/10/07**

Revised list attached below. (Work Check List)

**4/23/07 K-601** (Air compressor) shuts off automatically and sometimes will not turn back on without manual assistance. J&H to troubleshoot.

Compressor operated overnight 5/1/07 to 5/2/07 without alarms or failures.

**4/23/07 Caustic Tank T-901** was indicating low level alarms

As there was only 400 gallons of caustic delivered by ERM.

**5/1/07** Compressed airline at FTO near control panel needs to be secured. MP showed Jesse Hottenstein the problem.

**5/2/07** Jesse (ERM) installed unistrut support bracket for the compressed airline near the FTO panel.

**RAPID RESPONSE QUALITY CONTROL DAILY REPORT CONT'D.**

**Work Check List**

**Observed During April 10, 2007 PLC Acceptance Check**

Revised 5/02/07 1500 hours

Items in red not completed

1. Pipe Supports needed: Discharge from condensate pumps. **Completed 4/27/07.**
2. Program HMI screen to match colors of P&ID Drawings. (Previously requested.) **Mike Ebner working on 4/26/07 and 4/27/07. JW approved Monday 4/30/07.**
3. H-201 leaks in bottom gasket. See drip marks on frame as evidence. **Neil advised he corrected 4/26/07.**
4. Tag needed on H-202 valves ("Hot"). **"HOT" painted on side of H-202 4/26/07.**
5. DPIT/FE-101 is not reporting correctly on HMI screen. The pitot does not appear to be installed according to Dwyer Instruments recommendations and should be re-installed. (Currently installed in a tee) **Relocated by J&H 4/26/07.**
6. Check potable water pipes on south wall by roll up door for vibration during use. **OK per JW 4/26/07 pipes are at 10'6" and are adequately supported.**
7. P-502 secondary containment sump pump failed second time, continued shakedown testing of this pump required. Or replace pump. **Neil advised the problem was corrected. Not witnessed 4/26/07 will ask Neil to show/prove on 4/27/07.** Pump P-502 works but there seems to be a problem with the check valves on the 2" line to the T-402 as sometimes there is flow and sometimes there is not flow when pump is put in hand mode. Pump would not work consistently again today 4/30/07. **Crew took apart discharge line within the sump and shortened the length of pipe to straighten out the flexible hose. Pump ran in hand and auto several times as demonstrated by ERM/J&H. Completed 5/1/07.**
8. Observation port (1.25 inch) identified on "Approved for Construction" Drawing C-10C, for all condensate sumps, was not installed and is required. It was needed to check water levels. **Completed 4/30/07.**

**Added to list 4/24/07:**

9. Lock out /tag out required for newly installed caustic fill line at T-901. **Completed 4/26/07.**
10. Brine tank leaks at hole located on side of tank closest to the floor. Ed Tung must be contacted by ERM. **Completed 4/30/07.**

**Added to list 4/25/07:**

11. Sample port tags at T-301/T-302 are in wrong positions. The correct identifications are written in marker pen on stainless steel valve near the tags. (SP-105, SP-106, SP-107 and SP-108). **Completed 4/26/07.**
12. T-601 auto-drain valve on bottom of tank (out of view) is leaking. **Completed 4/26/07.**
13. Valve adjacent to V-210 (on the line leading to holding tank for RC-201 on cooling tower pad) needs to be tagged out and labeled as "valve normally closed". **Completed 4/30/07.**
14. Discharge valve V-213 does not have tag. **Completed 4/30/07.**
15. Valves underneath the cooling tower need to be labeled/identified as "overflow /valve normally open" and "drain/ valve normally closed". **Completed 4/30/07.**

**RAPID RESPONSE QUALITY CONTROL DAILY REPORT CONT'D.**

16.V-121 needs to open all the way it does not open all the way. It is currently locked in a partially open position. **Mark Williams took valve apart and showed MP that it seats fully. Completed 4/30/07.**

17.Label holding tank for RC-201. **Completed 4/27/07.**

18. Secure overhead water line known as "FTO Blowdown" at the 90 Deg. Ell above TIT-402 and PI-405. Thrust shakes pipe unacceptably. **Completed 4/27/07.**

19.Compressor maintenance to improve frequent low pressure alarm and error signal on compressor readout. J&H crew are already aware and have maintenance scheduled. Manufacturer's representative scheduled for Tuesday 5/1/07. Module was replaced 5/1/07. **Compressor ran without alarms for rest of day 5/1/07.**

20. Seal all building penetrations (electrical and piping penetrations). **Completed 4/30/07.**

**For Fire Department Inspection:**

**21.Install a NAOH fire placard on outside of building at entrance to all 4 doors.**

Certification: I CERTIFY THAT THE ABOVE REPORT IS COMPLETE AND CORRECT AND THAT I, OR MY AUTHORIZED REPRESENTATIVE, HAVE INSPECTED ALL WORK PERFORMED THIS DAY BY THE PRIMARY CONTRACTOR AND EACH SUBCONTRACTOR AND HAVE DETERMINED THAT ALL MATERIALS, EQUIPMENT, AND WORKMANSHIP ARE IN STRICT COMPLIANCE WITH THE PLANS AND SPECIFICATIONS, EXCEPT AS NOTED ABOVE.

Mark Prostko

Contractor's designated quality control representative

RAPID RESPONSE QUALITY CONTROL DAILY REPORT		
Contractor's Name: T N & Associates		
Contract Number: <b>DACA45-00-D-0006</b>		
Site Name & Location: Pemaco; Maywood, CA		
<p style="text-align: center;">INSTRUCTIONS</p> <p>The contractor shall submit this form daily at the close of business to the on-site COE representative. Concurrently, the contractor shall provide electronic access to the completed forms to the COE district office and the area office.</p>		
Report #: 20070503	Delivery Order #:06	Date: 5-03-2007
Weather: Mostly Sunny	Temp. (max & min): 60- 75	Rainfall (in): .00
<p>1. Work performed today by primary contractor on site and/or off site:</p> <ol style="list-style-type: none"> <li>1) MP (TN&amp;A) on site at 0720 hours. Security was onsite. ERM, Jacob &amp; Hefner, CLEVECO and Bobcat Master on site. Safety meeting today was hearing protection in TC Building during FTO start up.</li> <li>2) 0700 hrs to ~1800 hrs Dave Allen (TN&amp;A) sampling wells in ERH area. Hector Cervantes on site at 0700 hrs to continue with FTO training and assist Dave Allen with sampling.</li> <li>3) 0730 hrs to 1630 hrs Dave Allen and Hector were tutored on electronic COC's on the PLC by TN&amp;A Ventura <span style="color: red;">staff member</span>.</li> <li>4) Ewelina Mutkowska on site in PM to supervise sampling and to attend meeting with EPA and Maywood residents at 1900 hrs.</li> <li>5) 0730 hrs MP met with Jacob&amp; Hefner and ERM. MP advised crew of leak at water filter tanks (tank closest to east wall) seems to be leaking at the base of the tank.</li> <li>6) 0800 hours Bob Lien (Anguil) on site to continue to work on FTO and provide additional training to on site personnel.</li> <li>7) 0800 hrs to 1400 hrs Mike Ebner is logged onto the system from remote location to work on PLC items and shit down scenarios.</li> <li>8) 0915 hrs John Wingate on site.</li> <li>9) 0915 hrs to 1400 hrs JW, Mike Ebner and Bob (Anguil) put the FTO in several shut down scenarios to check all interlock systems between FTO and PLC.</li> <li>10) 1000 hrs Stephen Cooperage, Inc. on site to remove 38 empty 55 gallon drums. TN&amp;A has left three- 55 gallon drums on site for used bag filter storage.</li> <li>11) 1130 hrs Rosie Caraway (USEPA) on site.</li> <li>12) 1300 hrs Rick Lainhart (USACE) on site to review and inspect grading operations.</li> <li>13) 1400 hrs to 1730 hrs JW, MP, Hector, Edwin, Mark William (J&amp;H), John Parkes (J&amp;H), Bob (Anguil), Rosie Caraway (EPA), and Rick Lainhart (USACE) were trained on usage of FTO while four (4) DPE vapor lines were brought on line and processed through the FTO. Lines DPE-A, DPE-B, DPE-C and DPE-D were put on line over a period of about 4 hours.</li> <li>14) 1730 MP left site. JW still on site with Rosie Caraway.</li> <li>15) Filters for F-401 (4 x 10 micron) and F-403/F-404 (2 x 10 micron) were changed at ~1800 hrs.</li> <li>16) Dust monitoring performed today. The entire area was watered down today prior to beginning grading operations. The monitoring schedule includes 2 units placed at the following locations: 1) Upgradient - north side of ERH area, and 2) Downgradient - Northwest corner of Pemaco office trailer. A time-weighted average (TWA) of dust concentrations as well as maximum concentration (max.) recorded by each unit are indicated below:</li> </ol>		

**RAPID RESPONSE QUALITY CONTROL DAILY REPORT CONT'D.**

Area (Unit #)	Daily	
	<u>TWA (mq/m3)</u>	<u>Max (mq/m3)</u>
Downgradient (1135)	0.000	0.214
Upgradient (1010)	0.000	2.432

2. Work performed by subcontractors on site and/or off site (include a complete description):

Subcontractors:

**Clevenger Construction, Inc. (General subcontractor)**

**07:00 AM ~ 3:00 PM (1/2 hour lunch)**

**(1 Superintendent two (2) field technicians)**

**Equipment: JD 210 LE Box grader, Wacker RD 25 dual drum vibratory roller, F-350,**

**Hand tools, laser level, plate compactor**

**(No equipment was used today)**

1. Supervised Bobcat Master and rest of crew during the grading operations today.
2. One technician operated plate compactor and one technician laid geotextile.
3. Completed placement of stone and compacting with roller and plate compactors.
4. 1400 hrs was requested by EPA/TN&A/USACE to provide and install more stone on northern limit of area. Stone was ordered and delivered at 1630 hours after crew left the site for the day.

**Bobcat Master (Subcontractor for CLEVECO)**

**7:00 AM ~ 3:00 PM (1/2 hour lunch)**

**(Two (2) Equipment Operators)**

**Equipment: 8 CY Dump truck, trailer, Bobcat with attachments, water truck, hand tools**

5. One (1) operator on Bobcat and box grader (split time between the two pieces of equipment) and one (1) operator used vibratory roller and water truck. (split time between the two pieces of equipment).

**Work performed today by ERM and subcontractors on site and/or off site:**

Neil Coy on site 0700 hours to oversee Jacob & Hefner.

Jacob and Hefner provided two-man crew (Mark Williams and John Parkes) and operated the GW treatment system/exposition wells with the exception of DA-4.  
(Day 9)

**Note: Summary of Jacob & Hefner's daily log will be included as an attachment to this report beginning with today's report. Hours are as detailed on the Jacob & Hefner report attached.**

3. Complete and attach the daily personnel cost report at the end of this document and label as Appendix 1.

**[PROVIDED IN SEPARATE BINDER]**

4. On-site conditions which resulted in delayed progress:  
None

5. Type and results of inspections (indicate whether: P-Preparatory, I-Initial, or F-Final and include satisfactory work completed or deficiencies with action to be taken):

**RAPID RESPONSE QUALITY CONTROL DAILY REPORT CONT'D.**

**Deficiencies** (Ongoing list and newly identified)

**PLC Acceptance Test notes from 4/10/07**

Revised list attached below. (Work Check List)

**4/23/07 K-601** (Air compressor) shuts off automatically and sometimes will not turn back on without manual assistance. J&H to troubleshoot. Compressor operated overnight 5/1/07 to 5/2/07 without alarms or failures.

**4/23/07 Caustic Tank T-901** was indicating low level alarms

As there was only 400 gallons of caustic delivered by ERM.

**5/3/07 Caustic line** installed by ERM/ICS near northern rollup door is leaking at a 90 degree elbow onto the concrete floor and curb.

**5/3/07 Water Filter** installed by ERM/ICS is leaking at the base.

**5/3/07 T-901** installed by ERM/ICS lid is missing. Needs to be replaced.

**5/3/07 Condensate sump VE-2** has an air/vacuum leak. Bolts are loose. There may be a leak in the inspection port just installed by J&H.

**Work Check List**

**Observed During April 10, 2007 PLC Acceptance Check**

Revised 5/03/07 1500 hours

Items in red not completed

1. Pipe Supports needed: Discharge from condensate pumps. **Completed 4/27/07.**
2. Program HMI screen to match colors of P&ID Drawings. (Previously requested.) **Mike Ebner working on 4/26/07 and 4/27/07. JW approved Monday 4/30/07.**
3. H-201 leaks in bottom gasket. See drip marks on frame as evidence. **Neil advised he corrected 4/26/07.**
4. Tag needed on H-202 valves ("Hot"). **"HOT" painted on side of H-202 4/26/07.**
5. DPIT/FE-101 is not reporting correctly on HMI screen. The pitot does not appear to be installed according to Dwyer Instruments recommendations and should be re-installed. (Currently installed in a tee) **Relocated by J&H 4/26/07.**
6. Check potable water pipes on south wall by roll up door for vibration during use. **OK per JW 4/26/07 pipes are at 10'6" and are adequately supported.**
7. P-502 secondary containment sump pump failed second time, continued shakedown testing of this pump required. Or replace pump. **Neil advised the problem was corrected. Not witnessed 4/26/07 will ask Neil to show/prove on 4/27/07.** Pump P-502 works but there seems to be a problem with the check valves on the 2" line to the T-402 as sometimes there is flow and sometimes there is not flow when pump is put in hand mode. Pump would not work consistently again today 4/30/07. **Crew took apart discharge line within the sump and shortened the length of pipe to straighten out the flexible hose. Pump ran in hand and auto several times as demonstrated by ERM/J&H. Completed 5/1/07.**
8. Observation port (1.25 inch) identified on "Approved for Construction" Drawing C-10C, for all condensate sumps, was not installed and is required. It was needed to check water levels. **Completed 4/30/07.**

**Added to list 4/24/07:**

9. Lock out /tag out required for newly installed caustic fill line at T-901. **Completed 4/26/07.**
10. Brine tank leaks at hole located on side of tank closest to the floor. Ed Tung must be contacted by ERM. **Completed 4/30/07.**

**RAPID RESPONSE QUALITY CONTROL DAILY REPORT CONT'D.**

**Added to list 4/25/07:**

11. Sample port tags at T-301/T-302 are in wrong positions. The correct identifications are written in marker pen on stainless steel valve near the tags. (SP-105, SP-106, SP-107 and SP-108). **Completed 4/26/07.**
12. T-601 auto-drain valve on bottom of tank (out of view) is leaking. **Completed 4/26/07.**
13. Valve adjacent to V-210 (on the line leading to holding tank for RC-201 on cooling tower pad) needs to be tagged out and labeled as "valve normally closed". **Completed 4/30/07.**
14. Discharge valve V-213 does not have tag. **Completed 4/30/07.**
15. Valves underneath the cooling tower need to be labeled/identified as "overflow /valve normally open" and "drain/ valve normally closed". **Completed 4/30/07.**
16. V-121 needs to open all the way it does not open all the way. It is currently locked in a partially open position. **Mark Williams took valve apart and showed MP that it seats fully. Completed 4/30/07.**
17. Label holding tank for RC-201. **Completed 4/27/07.**
18. Secure overhead water line known as "FTO Blowdown" at the 90 Deg. Ell above TIT-402 and PI-405. Thrust shakes pipe unacceptably. **Completed 4/27/07.**
19. Compressor maintenance to improve frequent low pressure alarm and error signal on compressor readout. J&H crew are already aware and have maintenance scheduled. Manufacturer's representative scheduled for Tuesday 5/1/07. Module was replaced 5/1/07. **Compressor ran without alarms for rest of day 5/1/07.**
20. Seal all building penetrations (electrical and piping penetrations). **Completed 4/30/07.**

**For Fire Department Inspection:**

21. Install a NAOH fire placard on outside of building at entrance to all 4 doors.
22. Caustic line installed by ERM/ICS near northern rollup door is leaking at a 90 degree elbow onto the concrete floor and curb.
23. Water Filter installed by ERM/ICS is leaking at the base.
24. T-901 installed by ERM/ICS lid is missing. Needs to be replaced.
25. Condensate sump VE-2 has an air/vacuum leak. Bolts are loose. There may be a leak in the inspection port recently installed by J&H.

Certification: I CERTIFY THAT THE ABOVE REPORT IS COMPLETE AND CORRECT AND THAT I, OR MY AUTHORIZED REPRESENTATIVE, HAVE INSPECTED ALL WORK PERFORMED THIS DAY BY THE PRIMARY CONTRACTOR AND EACH SUBCONTRACTOR AND HAVE DETERMINED THAT ALL MATERIALS, EQUIPMENT, AND WORKMANSHIP ARE IN STRICT COMPLIANCE WITH THE PLANS AND SPECIFICATIONS, EXCEPT AS NOTED ABOVE.

Mark Prostko

Contractor's designated quality control representative

### RAPID RESPONSE QUALITY CONTROL DAILY REPORT

Contractor's Name: T N & Associates

Contract Number: **DACA45-00-D-0006**

Site Name & Location: Pemaco; Maywood, CA

#### INSTRUCTIONS

The contractor shall submit this form daily at the close of business to the on-site COE representative. Concurrently, the contractor shall provide electronic access to the completed forms to the COE district office and the area office.

Report #: 20070504

Delivery Order #:06

Date: 5-04-2007

Weather: Mostly Sunny

Temp. (max & min): 60- 81

Rainfall (in): .00

1. Work performed today by primary contractor on site and/or off site:

- 1) MP (TN&A) on site at 0705 hours. Security was onsite. ERM, Jacob & Hefner, CLEVECO on site. Safety meeting today was safe operations inside the TC with FTO running. High noise levels (decibels over 100 dB).
- 2) 0730 hrs MP met with Jacob & Hefner, CLEVECO, Edwin and Hector Cervantes to review plans for starting FTO and completion of site grading work.
- 3) 0935 hrs to 1430 hrs MP and Edwin turned on and operated the FTO system. Brought four (4) DPE vapor lines on line and processed through the FTO. Lines DPE-A, DPE-B, DPE-C and DPE-D were run over a period of about 4 hours until a rogue E-Stop alarm shut down the system.
- 4) 1100 hrs Rosie Caraway (EPA) visited site and inspected progress.
- 5) 1200 hrs Hector/MP/Edwin opened filter T-403 and removed fine silty material adhering to the top 1" of carbon.
- 6) Filters for F-403/F-404 (existing 2 x 10 micron) were changed at ~1400 hrs to new 2 x 1 micron filters.
- 7) 1300 hours MP read FQ-401 meter at 370330 gallons.
- 8) 1330 hrs MP recorded 78 ppm at inlet to FTO when DPE-A, DPE-B, DPE-C and DPE-D were being processed at 17 in Hg at the manifold area. Humidity 35% inside TC and 48% in vapor stream near oil mist filters.
- 9) 1500 hrs MP reviewed plans for weekend and schedule to change the bag filters F-401, F-402, F-403 and F-404.
- 10) 1530 MP left site. Reported to JW status of operations.
- 11) Dust monitoring not performed today. The monitoring schedule includes 2 units placed at the following locations: 1) Upgradient - north side of ERH area, and 2) Downgradient - Northwest corner of Pemaco office trailer. A time-weighted average (TWA) of dust concentrations as well as maximum concentration (max.) recorded by each unit are indicated below:

Area (Unit #)	Daily	
	<u>TWA (mq/m3)</u>	<u>Max (mq/m3)</u>
Downgradient (1135)	0.000	0.000
Upgradient (1010)	0.000	0.000

2. Work performed by subcontractors on site and/or off site (include a complete description):

**RAPID RESPONSE QUALITY CONTROL DAILY REPORT CONT'D.**

Subcontractors:

**Clevenger Construction, Inc. (General subcontractor)**

**07:00 AM ~ 10:00 AM**

**(Two (2) field technicians)**

**Equipment: JD 210 LE Box grader, Wacker RD 25 dual drum vibratory roller, Hand tools, plate compactor**

**(No equipment was used today)**

1. Crew completed the additional placement and compaction of one additional load of stone on north side of TC area. Crew grouted in the sample box lid south side of TC. Cleaned up and demobilized from the site.

**EarthTech (Subcontractor)**

**07:00 AM ~ 3:30 PM (1/2 hour lunch)**

**(1 Technician)**

1. Working with MP operating and learning the FTO processing system.

**Work performed today by ERM and subcontractors on site and/or off site:**

Jacob and Hefner provided two-man crew (Mark Williams and John Parkes) and operated the GW treatment system/exposition wells with the exception of DA-4. (Day 10)

**Note: Summary of Jacob & Hefner's daily log will be included as an attachment to this report beginning with today's report. Hours are as detailed on the Jacob & Hefner report attached.**

3. Complete and attach the daily personnel cost report at the end of this document and label as Appendix 1.

**[PROVIDED IN SEPARATE BINDER]**

4. On-site conditions which resulted in delayed progress:  
None

5. Type and results of inspections (indicate whether: P-Preparatory, I-Initial, or F-Final and include satisfactory work completed or deficiencies with action to be taken):

**Deficiencies** (Ongoing list and newly identified)

**PLC Acceptance Test notes from 4/10/07**

Revised list attached below. (Work Check List)

**4/23/07 Caustic Tank T-901** was indicating low level alarms

As there was only 400 gallons of caustic delivered by ERM.

**5/3/07 Caustic line** installed by ERM/ICS near northern rollup door is leaking at a 90 degree elbow onto the concrete floor and curb.

**5/3/07 Water Filter** installed by ERM/ICS is leaking at the base.

**5/3/07 T-901** installed by ERM/ICS lid is missing. Needs to be replaced.

**5/3/07 Condensate sump VE-2** has an air/vacuum leak. Bolts are loose. There may be a leak in the inspection port just installed by J&H.

**Work Check List**

**Observed During April 10, 2007 PLC Acceptance Check**

Revised 5/04/07 1500 hours

Items in red not completed

1. Pipe Supports needed: Discharge from condensate pumps. **Completed 4/27/07.**

**RAPID RESPONSE QUALITY CONTROL DAILY REPORT CONT'D.**

2. Program HMI screen to match colors of P&ID Drawings. (Previously requested.) **Mike Ebner working on 4/26/07 and 4/27/07. JW approved Monday 4/30/07.**
3. H-201 leaks in bottom gasket. See drip marks on frame as evidence. **Neil advised he corrected 4/26/07.**
4. Tag needed on H-202 valves ("Hot"). **"HOT" painted on side of H-202 4/26/07.**
5. DPIT/FE-101 is not reporting correctly on HMI screen. The pitot does not appear to be installed according to Dwyer Instruments recommendations and should be re-installed. (Currently installed in a tee) **Relocated by J&H 4/26/07.**
6. Check potable water pipes on south wall by roll up door for vibration during use. **OK per JW 4/26/07 pipes are at 10'6" and are adequately supported.**
7. P-502 secondary containment sump pump failed second time, continued shakedown testing of this pump required. Or replace pump. **Neil advised the problem was corrected. Not witnessed 4/26/07 will ask Neil to show/prove on 4/27/07.** Pump P-502 works but there seems to be a problem with the check valves on the 2" line to the T-402 as sometimes there is flow and sometimes there is not flow when pump is put in hand mode. Pump would not work consistently again today 4/30/07. **Crew took apart discharge line within the sump and shortened the length of pipe to straighten out the flexible hose. Pump ran in hand and auto several times as demonstrated by ERM/J&H. Completed 5/1/07.**
8. Observation port (1.25 inch) identified on "Approved for Construction" Drawing C-10C, for all condensate sumps, was not installed and is required. It was needed to check water levels. **Completed 4/30/07.**

**Added to list 4/24/07:**

9. Lock out /tag out required for newly installed caustic fill line at T-901. **Completed 4/26/07.**
10. Brine tank leaks at hole located on side of tank closest to the floor. Ed Tung must be contacted by ERM. **Completed 4/30/07.**

**Added to list 4/25/07:**

11. Sample port tags at T-301/T-302 are in wrong positions. The correct identifications are written in marker pen on stainless steel valve near the tags. (SP-105, SP-106, SP-107 and SP-108). **Completed 4/26/07.**
12. T-601 auto-drain valve on bottom of tank (out of view) is leaking. **Completed 4/26/07.**
13. Valve adjacent to V-210 (on the line leading to holding tank for RC-201 on cooling tower pad) needs to be tagged out and labeled as "valve normally closed". **Completed 4/30/07.**
14. Discharge valve V-213 does not have tag. **Completed 4/30/07.**
15. Valves underneath the cooling tower need to be labeled/identified as "overflow /valve normally open" and "drain/ valve normally closed". **Completed 4/30/07.**
16. V-121 needs to open all the way it does not open all the way. It is currently locked in a partially open position. **Mark Williams took valve apart and showed MP that it seats fully. Completed 4/30/07.**
17. Label holding tank for RC-201. **Completed 4/27/07.**

**RAPID RESPONSE QUALITY CONTROL DAILY REPORT CONT'D.**

18. Secure overhead water line known as "FTO Blowdown" at the 90 Deg. Ell above TIT-402 and PI-405. Thrust shakes pipe unacceptably. **Completed 4/27/07.**
19. Compressor maintenance to improve frequent low pressure alarm and error signal on compressor readout. J&H crew are already aware and have maintenance scheduled. Manufacturer's representative scheduled for Tuesday 5/1/07. Module was replaced 5/1/07. **Compressor ran without alarms for rest of day 5/1/07.**
20. Seal all building penetrations (electrical and piping penetrations). **Completed 4/30/07.**

**For Fire Department Inspection:**

21. Install a NAOH fire placard on outside of building at entrance to all 4 doors. **Completed 5/4/07.**

**New to list 5/4/07**

22. Caustic line installed by ERM/ICS near northern rollup door is leaking at a 90 degree elbow onto the concrete floor and curb.
23. Water Filter installed by ERM/ICS is leaking at the base.
24. T-901 installed by ERM/ICS lid is missing. Needs to be replaced.
25. Condensate sump VE-2 has an air/vacuum leak. Bolts are loose. There may be a leak in the inspection port recently installed by J&H.

Certification: I CERTIFY THAT THE ABOVE REPORT IS COMPLETE AND CORRECT AND THAT I, OR MY AUTHORIZED REPRESENTATIVE, HAVE INSPECTED ALL WORK PERFORMED THIS DAY BY THE PRIMARY CONTRACTOR AND EACH SUBCONTRACTOR AND HAVE DETERMINED THAT ALL MATERIALS, EQUIPMENT, AND WORKMANSHIP ARE IN STRICT COMPLIANCE WITH THE PLANS AND SPECIFICATIONS, EXCEPT AS NOTED ABOVE.

Mark Prostko

Contractor's designated quality control representative

### RAPID RESPONSE QUALITY CONTROL DAILY REPORT

Contractor's Name: T N & Associates

Contract Number: **DACA45-00-D-0006**

Site Name & Location: Pemaco; Maywood, CA

#### INSTRUCTIONS

The contractor shall submit this form daily at the close of business to the on-site COE representative. Concurrently, the contractor shall provide electronic access to the completed forms to the COE district office and the area office.

Report #: 20070507

Delivery Order #:06

Date: 5-07-2007

Weather: Mostly Sunny

Temp. (max & min): 72- 92

Rainfall (in): .00

1. Work performed today by primary contractor on site and/or off site:

- 1) MP (TN&A) on site at 0720 hours. Security was onsite. Jacob & Hefner already on site. Safety meeting today was heat stress monitoring inside the TC as temperatures are expected to be above 90 degrees F outside and with FTO running over 90 degrees F inside TC.
- 2) 0730 hrs MP met with Jacob & Hefner, Edwin and Hector Cervantes for work scheduled today. GW system had alarm of "P-402 VFD fault high voltage -05F". System was restarted by J&H prior to 0700 hrs.
- 3) 0935 hrs to 1530 hrs MP and Edwin turned on and operated the FTO system. Pulled vapors through four (4) DPE vapor lines and one (1) VE-2 line and processed through the FTO. Lines DPE-A, DPE-B, DPE-C and DPE-D were run over a period of about 4 1/2 hours and then VE-2 was put on line at ~1400 hours.
- 4) 1150 hours MP read FQ-401 meter at 483180 gallons.
- 5) ~1200 hrs equipment used in grading operations last week was picked up by United Rental.
- 6) ~1230 hrs J&H added 750 lbs of salt to the brine tank. Tank overflowed when one of the filters backwashed/discharged water to the brine tank. J&H hosed floor down with potable water. J&H also added 8 oz of algaecide to T-202.
- 7) 1330 hrs MP recorded 85 ppm at inlet to FTO when DPE-A, DPE-B, DPE-C and DPE-D were being processed at 17 in Hg at the manifold area. Humidity 11% inside TC and 39% in vapor stream after H-202. Ambient temperature inside the TC reached 101 degrees F.
- 8) 1400 hours MP put VE-2 on line. Inlet at FTO 229 PPM at 17 inches Hg.
- 9) 1445 hours four (4) x 10 micron bag filters for F-401 were changed.
- 10) 1500 hrs JW advised to shut down DA-4 and DB-4 wells. DA-4 well is already offline. Hector shut down DB-4 well.
- 11) 1530 MP left site. Reported to JW status of operations.
- 12) Dust monitoring not performed today. The monitoring schedule includes 2 units placed at the following locations: 1) Upgradient - north side of ERH area, and 2) Downgradient - Northwest corner of Pemaco office trailer. A time-weighted average (TWA) of dust concentrations as well as maximum concentration (max.) recorded by each unit are indicated below:

Area (Unit #)	Daily	
	<u>TWA (mg/m3)</u>	<u>Max (mg/m3)</u>
Downgradient (1135)	0.000	0.000
Upgradient (1010)	0.000	0.000

**RAPID RESPONSE QUALITY CONTROL DAILY REPORT CONT'D.**

2. Work performed by subcontractors on site and/or off site (include a complete description):

Subcontractors:

**EarthTech (Subcontractor)**

07:00 AM ~ 1:00 PM (1/2 hour lunch)

(1 Technician)

1. Working with MP operating and learning the FTO processing system.

**Work performed today by ERM and subcontractors on site and/or off site:**

Jacob and Hefner provided two-man crew (Mark Williams and John Parkes) and operated the GW treatment system/exposition wells with the exception of DA-4. Also began the first day of data point identification/ collection for the FTO daily O/M field report.

(Day 11)

**Note: Summary of Jacob & Hefner's daily log will be included as an attachment to this report beginning with today's report. Hours are as detailed on the Jacob & Hefner report attached.**

3. Complete and attach the daily personnel cost report at the end of this document and label as Appendix 1.

**[PROVIDED IN SEPARATE BINDER]**

4.

5. On-site conditions which resulted in delayed progress:  
None

6. Type and results of inspections (indicate whether: P-Preparatory, I-Initial, or F-Final and include satisfactory work completed or deficiencies with action to be taken):

**Deficiencies** (Ongoing list and newly identified)

**PLC Acceptance Test notes from 4/10/07**

Revised list attached below. (Work Check List)

**4/23/07 Caustic Tank T-901** was indicating low level alarms

As there was only 400 gallons of caustic delivered by ERM.

**5/3/07 Caustic line** installed by ERM/ICS near northern rollup door is leaking at a 90 degree elbow onto the concrete floor and curb.

**5/3/07 Water Filter** installed by ERM/ICS is leaking at the base.

**5/3/07 T-901** installed by ERM/ICS lid is missing. Needs to be replaced.

**5/3/07 Condensate sump VE-2** has an air/vacuum leak. Bolts are loose. There may be a leak in the inspection port just installed by J&H.

**5/7/07 Condensate sump DPE-D** the suction line for the air diaphragm pump seems to work intermittently.

**Work Check List**

**Observed During April 10, 2007 PLC Acceptance Check**

Revised 5/07/07 1500 hours

Items in red not completed

1. Pipe Supports needed: Discharge from condensate pumps. **Completed 4/27/07.**

**RAPID RESPONSE QUALITY CONTROL DAILY REPORT CONT'D.**

2. Program HMI screen to match colors of P&ID Drawings. (Previously requested.) **Mike Ebner working on 4/26/07 and 4/27/07. JW approved Monday 4/30/07.**
3. H-201 leaks in bottom gasket. See drip marks on frame as evidence. **Neil advised he corrected 4/26/07.**
4. Tag needed on H-202 valves ("Hot"). **"HOT" painted on side of H-202 4/26/07.**
5. DPIT/FE-101 is not reporting correctly on HMI screen. The pitot does not appear to be installed according to Dwyer Instruments recommendations and should be re-installed. (Currently installed in a tee) **Relocated by J&H 4/26/07.**
6. Check potable water pipes on south wall by roll up door for vibration during use. **OK per JW 4/26/07 pipes are at 10'6" and are adequately supported.**
7. P-502 secondary containment sump pump failed second time, continued shakedown testing of this pump required. Or replace pump. **Neil advised the problem was corrected. Not witnessed 4/26/07 will ask Neil to show/prove on 4/27/07.** Pump P-502 works but there seems to be a problem with the check valves on the 2" line to the T-402 as sometimes there is flow and sometimes there is not flow when pump is put in hand mode. Pump would not work consistently again today 4/30/07. **Crew took apart discharge line within the sump and shortened the length of pipe to straighten out the flexible hose. Pump ran in hand and auto several times as demonstrated by ERM/J&H. Completed 5/1/07.**
8. Observation port (1.25 inch) identified on "Approved for Construction" Drawing C-10C, for all condensate sumps, was not installed and is required. It was needed to check water levels. **Completed 4/30/07.**

**Added to list 4/24/07:**

9. Lock out /tag out required for newly installed caustic fill line at T-901. **Completed 4/26/07.**
10. Brine tank leaks at hole located on side of tank closest to the floor. Ed Tung must be contacted by ERM. **Completed 4/30/07.**

**Added to list 4/25/07:**

11. Sample port tags at T-301/T-302 are in wrong positions. The correct identifications are written in marker pen on stainless steel valve near the tags. (SP-105, SP-106, SP-107 and SP-108). **Completed 4/26/07.**
12. T-601 auto-drain valve on bottom of tank (out of view) is leaking. **Completed 4/26/07.**
13. Valve adjacent to V-210 (on the line leading to holding tank for RC-201 on cooling tower pad) needs to be tagged out and labeled as "valve normally closed". **Completed 4/30/07.**
14. Discharge valve V-213 does not have tag. **Completed 4/30/07.**
15. Valves underneath the cooling tower need to be labeled/identified as "overflow /valve normally open" and "drain/ valve normally closed". **Completed 4/30/07.**
16. V-121 needs to open all the way it does not open all the way. It is currently locked in a partially open position. **Mark Williams took valve apart and showed MP that it seats fully. Completed 4/30/07.**
17. Label holding tank for RC-201. **Completed 4/27/07.**

**RAPID RESPONSE QUALITY CONTROL DAILY REPORT CONT'D.**

18. Secure overhead water line known as "FTO Blowdown" at the 90 Deg. Ell above TIT-402 and PI-405. Thrust shakes pipe unacceptably. **Completed 4/27/07.**
19. Compressor maintenance to improve frequent low pressure alarm and error signal on compressor readout. J&H crew are already aware and have maintenance scheduled. Manufacturer's representative scheduled for Tuesday 5/1/07. Module was replaced 5/1/07. **Compressor ran without alarms for rest of day 5/1/07.**
20. Seal all building penetrations (electrical and piping penetrations). **Completed 4/30/07.**

**For Fire Department Inspection:**

21. Install a NAOH fire placard on outside of building at entrance to all 4 doors. **Completed 5/4/07.**

**New to list 5/4/07**

22. Caustic line installed by ERM/ICS near northern rollup door is leaking at a 90 degree elbow onto the concrete floor and curb.
23. Water Filter installed by ERM/ICS is leaking at the base.
24. T-901 installed by ERM/ICS lid is missing. Needs to be replaced.
25. Condensate sump VE-2 has an air/vacuum leak. Bolts are loose. There may be a leak in the inspection port recently installed by J&H.

**New to list 5/7/07**

26. The air diaphragm pump suction line in condensate sump DPE-D does not seem to be working correctly.

Certification: I CERTIFY THAT THE ABOVE REPORT IS COMPLETE AND CORRECT AND THAT I, OR MY AUTHORIZED REPRESENTATIVE, HAVE INSPECTED ALL WORK PERFORMED THIS DAY BY THE PRIMARY CONTRACTOR AND EACH SUBCONTRACTOR AND HAVE DETERMINED THAT ALL MATERIALS, EQUIPMENT, AND WORKMANSHIP ARE IN STRICT COMPLIANCE WITH THE PLANS AND SPECIFICATIONS, EXCEPT AS NOTED ABOVE.

Mark Prostko

Contractor's designated quality control representative

# RAPID RESPONSE QUALITY CONTROL DAILY REPORT

Contractor's Name: T N & Associates

Contract Number: **DACA45-00-D-0006**

Site Name & Location: Pemaco; Maywood, CA

## INSTRUCTIONS

The contractor shall submit this form daily at the close of business to the on-site COE representative. Concurrently, the contractor shall provide electronic access to the completed forms to the COE district office and the area office.

Report #: 20070508

Delivery Order #:06

Date: 5-08-2007

Weather: Mostly Sunny

Temp. (max & min): 72- 100

Rainfall (in): .00

### 1. Work performed today by primary contractor on site and/or off site:

- 1) MP (TN&A) on site at 0725 hours. Security was onsite. Jacob & Hefner already on site. Safety meeting today was proper use of PPE in regards to handling NAOH solution expected to be delivered today in addition to repairs to the leaks seen on the 1/2" SS caustic line near east wall behind FTO unit.
- 2) 0730 to 0800 hrs MP met with Jacob & Hefner, Dave Allen and Hector Cervantes for work scheduled today.
- 3) 1020 hrs to 1630 hrs MP/J&H crew turned on and operated the FTO system. Pulled vapors through four (4) DPE vapor lines and one (1) VE-2 line and processed through the FTO.
- 4) 1155 hours MP read FQ-401 meter at 523098 gallons.
- 5) 1300 hrs J&H crew left site. TN&A requested that the FTO remain running. MP ran FTO until 1630 hours at 17 inches and 18 inches Hg on manifold.
- 6) 1330 hours J&H crew changed the bag filters at F-403/F-404 (2 filters x 1 micron)
- 7) ~1400 hrs 800 gallons of NAOH solution was delivered to the site and pumped into T-901. Temperature inside TC building today is 105 to 108 degrees F.
- 8) ~1430 hours J&H crew changed all filters at F-401/F-402 (5 filters x 10 micron).
- 9) 1540 hours checked system parameters PID reading at inlet to FTO was 261 ppm at 17" Hg on manifold.
- 10) 1710 MP left site. Reported to JW status of operations.
- 11) Note: Danny Chen took two (2) dust monitors back to Ventura to be shipped back to vendor.
- 12) Dust monitoring not performed today. The monitoring schedule includes 2 units placed at the following locations: 1) Upgradient - north side of ERH area, and 2) Downgradient - Northwest corner of Pemaco office trailer. A time-weighted average (TWA) of dust concentrations as well as maximum concentration (max.) recorded by each unit are indicated below:

Area (Unit #)	Daily	
	<u>TWA (mg/m3)</u>	<u>Max (mg/m3)</u>
Downgradient (1135)	NA	NA
Upgradient (1010)	NA	NA

### 2. Work performed by subcontractors on site and/or off site (include a complete description):

**RAPID RESPONSE QUALITY CONTROL DAILY REPORT CONT'D.**

Subcontractors:

**Work performed today by ERM and subcontractors on site and/or off site:**

Jacob and Hefner provided two-man crew (Mark Williams and John Parkes) and operated the GW treatment system/exposition wells with the exception of DA-4. Started up FTO unit at 1020 hours with MP and Hector (TN&A). Received NAOH delivery of 800 gallons in PM and Eversoft technician (subcontractor to J&H) also programmed the water softeners.  
(Day 12)

**Note: Summary of Jacob & Hefner's daily log will be included as an attachment to this report beginning with today's report. Hours are as detailed on the Jacob & Hefner report attached.**

3. Complete and attach the daily personnel cost report at the end of this document and label as Appendix 1.  
**[PROVIDED IN SEPARATE BINDER]**

4. On-site conditions which resulted in delayed progress:  
None

5. Type and results of inspections (indicate whether: P-Preparatory, I-Initial, or F-Final and include satisfactory work completed or deficiencies with action to be taken):

**Deficiencies** (Ongoing list and newly identified)

**PLC Acceptance Test notes from 4/10/07**

Revised list attached below. (Work Check List)

**4/23/07 Caustic Tank T-901** was indicating low level alarms

As there was only 400 gallons of caustic delivered by ERM. **Delivery of 800 gallons of NAOH 5/8/07.**

**5/3/07 Caustic line** installed by ERM/ICS near northern rollup door is leaking at a 90 degree elbow onto the concrete floor and curb.

**5/3/07 Water Filter** installed by ERM/ICS is leaking at the base. **Completed 5/8/07.**

**5/3/07 T-901** installed by ERM/ICS lid is missing. Needs to be replaced.

**5/3/07 Condensate sump VE-2** has an air/vacuum leak. Bolts are loose. There may be a leak in the inspection port just installed by J&H.

**5/7/07 Condensate sump DPE-D** the suction line for the air diaphragm pump seems to work intermittently.

**Work Check List**

**Observed During April 10, 2007 PLC Acceptance Check**

Revised 5/08/07 1500 hours

Items in red not completed

1. Pipe Supports needed: Discharge from condensate pumps. **Completed 4/27/07.**
2. Program HMI screen to match colors of P&ID Drawings. (Previously requested.) **Mike Ebner working on 4/26/07 and 4/27/07. JW approved Monday 4/30/07.**
3. H-201 leaks in bottom gasket. See drip marks on frame as evidence. **Neil advised he corrected 4/26/07.**
4. Tag needed on H-202 valves ("Hot"). **"HOT" painted on side of H-202 4/26/07.**

**RAPID RESPONSE QUALITY CONTROL DAILY REPORT CONT'D.**

5. DPIT/FE-101 is not reporting correctly on HMI screen. The pitot does not appear to be installed according to Dwyer Instruments recommendations and should be re-installed. (Currently installed in a tee) **Relocated by J&H 4/26/07.**
6. Check potable water pipes on south wall by roll up door for vibration during use. **OK per JW 4/26/07 pipes are at 10'6" and are adequately supported.**
7. P-502 secondary containment sump pump failed second time, continued shakedown testing of this pump required. Or replace pump. **Neil advised the problem was corrected. Not witnessed 4/26/07 will ask Neil to show/prove on 4/27/07.** Pump P-502 works but there seems to be a problem with the check valves on the 2" line to the T-402 as sometimes there is flow and sometimes there is not flow when pump is put in hand mode. Pump would not work consistently again today 4/30/07. **Crew took apart discharge line within the sump and shortened the length of pipe to straighten out the flexible hose. Pump ran in hand and auto several times as demonstrated by ERM/J&H. Completed 5/1/07.**
8. Observation port (1.25 inch) identified on "Approved for Construction" Drawing C-10C, for all condensate sumps, was not installed and is required. It was needed to check water levels. **Completed 4/30/07.**

**Added to list 4/24/07:**

9. Lock out /tag out required for newly installed caustic fill line at T-901. **Completed 4/26/07.**
10. Brine tank leaks at hole located on side of tank closest to the floor. Ed Tung must be contacted by ERM. **Completed 4/30/07.**

**Added to list 4/25/07:**

11. Sample port tags at T-301/T-302 are in wrong positions. The correct identifications are written in marker pen on stainless steel valve near the tags. (SP-105, SP-106, SP-107 and SP-108). **Completed 4/26/07.**
12. T-601 auto-drain valve on bottom of tank (out of view) is leaking. **Completed 4/26/07.**
13. Valve adjacent to V-210 (on the line leading to holding tank for RC-201 on cooling tower pad) needs to be tagged out and labeled as "valve normally closed". **Completed 4/30/07.**
14. Discharge valve V-213 does not have tag. **Completed 4/30/07.**
15. Valves underneath the cooling tower need to be labeled/identified as "overflow /valve normally open" and "drain/ valve normally closed". **Completed 4/30/07.**
16. V-121 needs to open all the way it does not open all the way. It is currently locked in a partially open position. **Mark Williams took valve apart and showed MP that it seats fully. Completed 4/30/07.**
17. Label holding tank for RC-201. **Completed 4/27/07.**
18. Secure overhead water line known as "FTO Blowdown" at the 90 Deg. Ell above TIT-402 and PI-405. Thrust shakes pipe unacceptably. **Completed 4/27/07.**
19. Compressor maintenance to improve frequent low pressure alarm and error signal on compressor readout. J&H crew are already aware and have maintenance scheduled. Manufacturer's representative scheduled for Tuesday 5/1/07. Module was replaced 5/1/07. **Compressor ran without alarms for rest of day 5/1/07.**
20. Seal all building penetrations (electrical and piping penetrations). **Completed 4/30/07.**

**RAPID RESPONSE QUALITY CONTROL DAILY REPORT CONT'D.**

**For** Fire Department Inspection:

21. Install a NAOH fire placard on outside of building at entrance to all 4 doors.  
**Completed 5/4/07.**

**New to list 5/4/07**

1. Caustic line installed by ERM/ICS near northern rollup door is leaking at a 90 degree elbow onto the concrete floor and curb.
2. Water Filter installed by ERM/ICS is leaking at the base. **Completed 5/8/07.**
3. T-901 installed by ERM/ICS lid is missing. Needs to be replaced.
4. Condensate sump VE-2 has an air/vacuum leak. Bolts are loose. There may be a leak in the inspection port recently installed by J&H.

**New to list 5/7/07**

5. The air diaphragm pump suction line in condensate sump DPE-D does not seem to be working correctly.

Certification: I CERTIFY THAT THE ABOVE REPORT IS COMPLETE AND CORRECT AND THAT I, OR MY AUTHORIZED REPRESENTATIVE, HAVE INSPECTED ALL WORK PERFORMED THIS DAY BY THE PRIMARY CONTRACTOR AND EACH SUBCONTRACTOR AND HAVE DETERMINED THAT ALL MATERIALS, EQUIPMENT, AND WORKMANSHIP ARE IN STRICT COMPLIANCE WITH THE PLANS AND SPECIFICATIONS, EXCEPT AS NOTED ABOVE.

Mark Prostko

Contractor's designated quality control representative

RAPID RESPONSE QUALITY CONTROL DAILY REPORT		
Contractor's Name: T N & Associates		
Contract Number: <b>DACA45-00-D-0006</b>		
Site Name & Location: Pemaco; Maywood, CA		
<p style="text-align: center;">INSTRUCTIONS</p> <p>The contractor shall submit this form daily at the close of business to the on-site COE representative. Concurrently, the contractor shall provide electronic access to the completed forms to the COE district office and the area office.</p>		
Report #: 20070509	Delivery Order #:06	Date: 5-09-2007
Weather: Mostly Sunny	Temp. (max & min): 72- 86	Rainfall (in): .00
<p>1. Work performed today by primary contractor on site and/or off site:</p> <ol style="list-style-type: none"> <li>1) JW (TN&amp;A) on site at 0700 hours. Security was onsite. Jacob &amp; Hefner already on site. Safety meeting today was safe operations during the repairs to the caustic (NAOH) line repairs to be made by ICS.</li> <li>2) ICS on site ~ 900 hours. Crew worked until 1400 hrs. Crew safely drained the ¾" stainless steel lines from the caustic feed metering pump to the FTO scrubber. Crew made repairs. TN&amp;A added a pressure gauge to the discharge line of the caustic metering pump. Parts consisted of SS tee, nipples, reducer bushing, ball valve, gage, and diaphragm snubber (to prevent contact between caustic and gage).</li> <li>3) 1430 hrs J&amp;H crew left site. TN&amp;A advised ERM that TN&amp;A would operate FTO system after J&amp;H leave the site today.</li> <li>4) ~1430 to 1545 hours MP started FTO. Slowly brought lines DPE-A, DPE-B, DPE-C, DPE-D, VE-2, VE-3, VE-4 dilution valve fully closed manifold at 19 inches Hg and inlet VOC at 335 ppm. Edwin from Earth tech is on site to assist.</li> <li>5) 1600 to 1700 hrs TN&amp;A directed Edwin and Hector to install manual vacuum relief valves on condensate sumps DPE-A, DPE-B, DPE-C, and DPE-D, essentially 1" PVC ball valves on the lids of the sumps to relieve vacuum so the sumps would pump down faster.</li> <li>6) 1535 hrs MP read FQ-401 meter at 569040 gallons. Temperature inside the TC is 92 degrees F.</li> <li>7) 1545 hrs FTO system parameters 1668 degrees F, 20" Hg, 614 scfm, 332 ppm VOC with PID, 40% humidity and 82 degrees F at point in air stream near SP-104. Air dilution valve is now closed 100%. Ran the system for the rest of the evening with dilution valve closed 100%.</li> <li>8) 1730 hrs 1713 degrees F, 20" Hg, 614 scfm, 327 ppm VOC with PID, 40% humidity and 82 degrees F at point in air stream near SP-104.</li> <li>9) 1930 hrs 1695 degrees F, 20" Hg, 614 scfm, 360 ppm.</li> <li>10) 1945 hrs shut down FTO and secured site.</li> <li>11) 2015 MP left the site.</li> <li>12) Dust monitoring not performed today. The monitoring schedule includes 2 units placed at the following locations: 1) Upgradient - north side of ERH area, and 2) Downgradient - Northwest corner of Pemaco office trailer. A time-weighted average (TWA) of dust concentrations as well as maximum concentration (max.) recorded by each unit are indicated below:</li> </ol>		

**RAPID RESPONSE QUALITY CONTROL DAILY REPORT CONT'D.**

Area (Unit #)	Daily	
	<u>TWA (mg/m3)</u>	<u>Max (mg/m3)</u>
Downgradient (1135)	NA	NA
Upgradient (1010)	NA	NA

2. Work performed by subcontractors on site and/or off site (include a complete description):

Subcontractors:

**Work performed today by ERM and subcontractors on site and/or off site:**

Jacob and Hefner provided two-man crew (Mark Williams and John Parkes) and operated the GW treatment system/exposition wells with the exception of DA-4 and DB-4. ICS repaired the caustic line between the pump and FTO. Added uni-strut supports to the caustic line on the FTO near the scrubber.  
(Day 13)

**Note: Summary of Jacob & Hefner's daily log will be included as an attachment to this report beginning with today's report. Hours are as detailed on the Jacob & Hefner report attached.**

3. Complete and attach the daily personnel cost report at the end of this document and label as Appendix 1.

**[PROVIDED IN SEPARATE BINDER]**

**Misc. Plant improvements stated above:**

TN&A added a pressure gauge to the discharge line of the caustic metering pump. Cost \$175. Parts ordered from McMaster Carr.

TN&A added manual vacuum relief valves on condensate sumps DPE-A, DPE-B, DPE-C, and DPE-D. Cost approximately \$25. Most parts already in-house as spares.

4. On-site conditions which resulted in delayed progress:  
None

5. Type and results of inspections (indicate whether: P-Preparatory, I-Initial, or F-Final and include satisfactory work completed or deficiencies with action to be taken):

**Deficiencies** (Ongoing list and newly identified)

**PLC Acceptance Test notes from 4/10/07**

Revised list attached below. (Work Check List)

**4/23/07 Caustic Tank T-901** was indicating low level alarms

As there was only 400 gallons of caustic delivered by ERM. **Delivery of 800 gallons of NAOH 5/8/07.**

**5/3/07 Caustic line** installed by ERM/ICS near northern rollup door is leaking at a 90 degree elbow onto the concrete floor and curb.

**5/3/07 Water Filter** installed by ERM/ICS is leaking at the base. **Completed 5/8/07.**

**5/3/07 T-901** installed by ERM/ICS lid is missing. Needs to be replaced. **Completed 5/9/07.**

**RAPID RESPONSE QUALITY CONTROL DAILY REPORT CONT'D.**

**5/3/07 Condensate sump VE-2** has an air/vacuum leak. Bolts are loose.  
There may be a leak in the inspection port just installed by J&H.

**5/7/07 Condensate sump DPE-D** the suction line for the air diaphragm  
pump seems to work intermittently.

**Work Check List**

**Observed During April 10, 2007 PLC Acceptance Check**

Revised 5/09/07 1500 hours

Items in red not completed

1. Pipe Supports needed: Discharge from condensate pumps. **Completed 4/27/07.**
2. Program HMI screen to match colors of P&ID Drawings. (Previously requested.)  
**Mike Ebner working on 4/26/07 and 4/27/07. JW approved Monday 4/30/07.**
3. H-201 leaks in bottom gasket. See drip marks on frame as evidence. **Neil advised he corrected 4/26/07.**
4. Tag needed on H-202 valves ("Hot"). **"HOT" painted on side of H-202 4/26/07.**
5. DPIT/FE-101 is not reporting correctly on HMI screen. The pitot does not appear to be installed according to Dwyer Instruments recommendations and should be re-installed. (Currently installed in a tee) **Relocated by J&H 4/26/07.**
6. Check potable water pipes on south wall by roll up door for vibration during use. **OK per JW 4/26/07 pipes are at 10'6" and are adequately supported.**
7. P-502 secondary containment sump pump failed second time, continued shakedown testing of this pump required. Or replace pump. **Neil advised the problem was corrected. Not witnessed 4/26/07 will ask Neil to show/prove on 4/27/07.** Pump P-502 works but there seems to be a problem with the check valves on the 2" line to the T-402 as sometimes there is flow and sometimes there is not flow when pump is put in hand mode. Pump would not work consistently again today 4/30/07. **Crew took apart discharge line within the sump and shortened the length of pipe to straighten out the flexible hose. Pump ran in hand and auto several times as demonstrated by ERM/J&H. Completed 5/1/07.**
8. Observation port (1.25 inch) identified on "Approved for Construction" Drawing C-10C, for all condensate sumps, was not installed and is required. It was needed to check water levels. **Completed 4/30/07.**

**Added to list 4/24/07:**

9. Lock out /tag out required for newly installed caustic fill line at T-901.  
**Completed 4/26/07.**
10. Brine tank leaks at hole located on side of tank closest to the floor. Ed Tung must be contacted by ERM. **Completed 4/30/07.**

**Added to list 4/25/07:**

11. Sample port tags at T-301/T-302 are in wrong positions. The correct identifications are written in marker pen on stainless steel valve near the tags. (SP-105, SP-106, SP-107 and SP-108). **Completed 4/26/07.**
12. T-601 auto-drain valve on bottom of tank (out of view) is leaking. **Completed 4/26/07.**
13. Valve adjacent to V-210 (on the line leading to holding tank for RC-201 on cooling tower pad) needs to be tagged out and labeled as "valve normally closed".  
**Completed 4/30/07.**

**RAPID RESPONSE QUALITY CONTROL DAILY REPORT CONT'D.**

14. Discharge valve V-213 does not have tag. **Completed 4/30/07.**

15. Valves underneath the cooling tower need to be labeled/identified as "overflow /valve normally open" and "drain/ valve normally closed". **Completed 4/30/07.**

16. V-121 needs to open all the way it does not open all the way. It is currently locked in a partially open position. **Mark Williams took valve apart and showed MP that it seats fully. Completed 4/30/07.**

Label holding tank for RC-201. **Completed 4/27/07.**

17. Secure overhead water line known as "FTO Blowdown" at the 90 Deg. Ell above TIT-402 and PI-405. Thrust shakes pipe unacceptably. **Completed 4/27/07.**

18. Compressor maintenance to improve frequent low pressure alarm and error signal on compressor readout. J&H crew are already aware and have maintenance scheduled. Manufacturer's representative scheduled for Tuesday 5/1/07. Module was replaced 5/1/07. **Compressor ran without alarms for rest of day 5/1/07.**

19. Seal all building penetrations (electrical and piping penetrations). **Completed 4/30/07.**

**For Fire Department Inspection:**

20. Install a NAOH fire placard on outside of building at entrance to all 4 doors. **Completed 5/4/07.**

**New to list 5/4/07**

1. Caustic line installed by ERM/ICS near northern rollup door is leaking at a 90 degree elbow onto the concrete floor and curb. **Completed 5/9/07.**
2. Water Filter installed by ERM/ICS is leaking at the base. **Completed 5/8/07.**
3. T-901 installed by ERM/ICS lid is missing. Needs to be replaced. **Completed 5/9/07**
4. Condensate sump VE-2 has an air/vacuum leak. Bolts are loose. There may be a leak in the inspection port recently installed by J&H. **Completed 5/3/07.**

**New to list 5/7/07**

5. **The air diaphragm pump suction lines in condensate sumps DPE-D and DPE-A do not seem to be working correctly.**

Certification: I CERTIFY THAT THE ABOVE REPORT IS COMPLETE AND CORRECT AND THAT I, OR MY AUTHORIZED REPRESENTATIVE, HAVE INSPECTED ALL WORK PERFORMED THIS DAY BY THE PRIMARY CONTRACTOR AND EACH SUBCONTRACTOR AND HAVE DETERMINED THAT ALL MATERIALS, EQUIPMENT, AND WORKMANSHIP ARE IN STRICT COMPLIANCE WITH THE PLANS AND SPECIFICATIONS, EXCEPT AS NOTED ABOVE.

Mark Prostko

Contractor's designated quality control representative

RAPID RESPONSE QUALITY CONTROL DAILY REPORT		
Contractor's Name: T N & Associates		
Contract Number: <b>DACA45-00-D-0006</b>		
Site Name & Location: Pemaco; Maywood, CA		
<p style="text-align: center;">INSTRUCTIONS</p> <p>The contractor shall submit this form daily at the close of business to the on-site COE representative. Concurrently, the contractor shall provide electronic access to the completed forms to the COE district office and the area office.</p>		
Report #: 20070510	Delivery Order #:06	Date: 5-10-2007
Weather: Mostly Sunny	Temp. (max & min): 60- 75	Rainfall (in): .00
<p>1. Work performed today by primary contractor on site and/or off site:</p> <ol style="list-style-type: none"> <li>1) Dave Allen (TN&amp;A) on site at 0630 hours. Security was onsite. Jacob &amp; Hefner already on site. Safety meeting today was EM 385-1-1 working platform safety section 22 Work Platforms (A) General. Crews will be accessing carbon vessels using the steel catwalk.</li> <li>2) 0630 hrs to 1930 hours Dave Allen was working on GW sampling collection. Hector Cervantes worked with Dave Allen in the AM and worked inside with MP monitoring the FTO system in PM.</li> <li>3) 1000 hrs MP arrives on site.</li> <li>4) 1230 hours FQI-401 totalizer reading 612798 gallons.</li> <li>5) 1430 hrs J&amp;H crew left site. TN&amp;A advised ERM that TN&amp;A would operate FTO system after J&amp;H leave the site today.</li> <li>6) 1430 hours to 1930 hours MP and Hector ran FTO system. Opened manifold valves for lines DPE-A, DPE-B, DPE-C, DPE-D, VE-2, VE-3 and VE-4 100%. Dilution valve fully closed. Condensate Sumps (CS) were reaching high water level status periodically. MP and Hector pumped down all the CS's as needed. JW instructed crew to leave CS-A alone and see how much water was pulled into T-101. At 1430 hours there was ~4" water in T-101. At 1930 hours there was ~ 10" water in T-101.</li> <li>7) 1500 hrs Edwin from EarthTech called MP. MP advised TC plant was under control no help needed today from Edwin.</li> <li>8) 1520 hrs inlet temperature FTO was 1692 degrees F, manifold vacuum pressure was 20" water, and flow rate inlet FTO was .32" water or ~ 500 scfm, PID reading 380 ppm.</li> <li>9) 1520 to 1930 hrs system ran without major problems.</li> <li>10) 1830 hrs changed (2 x 1 micron) bag filters at F-403/F-404. Pressure readings at SP-205/PI-410 was 22 psi, SP-206/PI-411 was 13 psi (T-403), SP-207/PI-413 was 14 psi, SP-208/PI-412 was 9 psi (T-404).</li> <li>11) 1930 hrs MP shut down FTO and waited for system to cool down. System shut off without problems by 2000 hrs.</li> <li>12) 2000 hrs MP secured TC Building and left site.</li> <li>13) Dust monitoring not performed today. The monitoring schedule includes 2 units placed at the following locations: 1) Upgradient - north side of ERH area, and 2) Downgradient - Northwest corner of Pemaco office trailer. A time-weighted average (TWA) of dust concentrations as well as maximum concentration (max.) recorded by each unit are indicated below:</li> </ol>		

**RAPID RESPONSE QUALITY CONTROL DAILY REPORT CONT'D.**

Area (Unit #)	Daily	
	<u>TWA (mg/m3)</u>	<u>Max (mg/m3)</u>
Downgradient (1135)	NA	NA
Upgradient (1010)	NA	NA

2. Work performed by subcontractors on site and/or off site (include a complete description):

Subcontractors:

**Work performed today by ERM and subcontractors on site and/or off site:**

Jacob and Hefner provided two-man crew (Mark Williams and John Parkes) and operated the GW treatment system/exposition wells with the exception of DA-4 and DB-4.

**Note: Summary of Jacob & Hefner's daily log will be included as an attachment to this report beginning with today's report. Hours are as detailed on the Jacob & Hefner report attached.**

3. Complete and attach the daily personnel cost report at the end of this document and label as Appendix 1.

**[PROVIDED IN SEPARATE BINDER]**

4. On-site conditions which resulted in delayed progress:  
None

5. Type and results of inspections (indicate whether: P-Preparatory, I-Initial, or F-Final and include satisfactory work completed or deficiencies with action to be taken):

**Deficiencies** (Ongoing list and newly identified)

**PLC Acceptance Test notes from 4/10/07**

Revised list attached below. (Work Check List)

**4/23/07 Caustic Tank T-901** was indicating low level alarms

As there was only 400 gallons of caustic delivered by ERM.

**Delivery**

**of 800 gallons of NAOH 5/8/07.**

**5/3/07 Caustic line** installed by ERM/ICS near northern rollup door is leaking at a 90 degree elbow onto the concrete floor and curb.

**5/3/07 Water Filter** installed by ERM/ICS is leaking at the base. Completed 5/8/07.

**5/3/07 T-901** installed by ERM/ICS lid is missing. Needs to be replaced. Completed 5/9/07.

**5/3/07 Condensate sump VE-2** has an air/vacuum leak. Bolts are loose. There may be a leak in the inspection port just installed by J&H. Completed 5/3/07.

**5/7/07 Condensate sump DPE-D** the suction line for the air diaphragm pump seems to work intermittently.

**Work Check List**

**Observed During April 10, 2007 PLC Acceptance Check**

**RAPID RESPONSE QUALITY CONTROL DAILY REPORT CONT'D.**

Revised 5/10/07 1500 hours  
Items in red not completed

1. Pipe Supports needed: Discharge from condensate pumps. **Completed 4/27/07.**
2. Program HMI screen to match colors of P&ID Drawings. (Previously requested.) **Mike Ebner working on 4/26/07 and 4/27/07. JW approved Monday 4/30/07.**
3. H-201 leaks in bottom gasket. See drip marks on frame as evidence. **Neil advised he corrected 4/26/07.**
4. Tag needed on H-202 valves ("Hot"). **"HOT" painted on side of H-202 4/26/07.**
5. DPIT/FE-101 is not reporting correctly on HMI screen. The pitot does not appear to be installed according to Dwyer Instruments recommendations and should be re-installed. (Currently installed in a tee) **Relocated by J&H 4/26/07.**
6. Check potable water pipes on south wall by roll up door for vibration during use. **OK per JW 4/26/07 pipes are at 10'6" and are adequately supported.**
7. P-502 secondary containment sump pump failed second time, continued shakedown testing of this pump required. Or replace pump. **Neil advised the problem was corrected. Not witnessed 4/26/07 will ask Neil to show/prove on 4/27/07.** Pump P-502 works but there seems to be a problem with the check valves on the 2" line to the T-402 as sometimes there is flow and sometimes there is not flow when pump is put in hand mode. Pump would not work consistently again today 4/30/07. **Crew took apart discharge line within the sump and shortened the length of pipe to straighten out the flexible hose. Pump ran in hand and auto several times as demonstrated by ERM/J&H. Completed 5/1/07.**
8. Observation port (1.25 inch) identified on "Approved for Construction" Drawing C-10C, for all condensate sumps, was not installed and is required. It was needed to check water levels. **Completed 4/30/07.**

**Added to list 4/24/07:**

9. Lock out /tag out required for newly installed caustic fill line at T-901. **Completed 4/26/07.**
10. Brine tank leaks at hole located on side of tank closest to the floor. Ed Tung must be contacted by ERM. **Completed 4/30/07.**

**Added to list 4/25/07:**

11. Sample port tags at T-301/T-302 are in wrong positions. The correct identifications are written in marker pen on stainless steel valve near the tags. (SP-105, SP-106, SP-107 and SP-108). **Completed 4/26/07.**
12. T-601 auto-drain valve on bottom of tank (out of view) is leaking. **Completed 4/26/07.**
13. Valve adjacent to V-210 (on the line leading to holding tank for RC-201 on cooling tower pad) needs to be tagged out and labeled as "valve normally closed". **Completed 4/30/07.**
14. Discharge valve V-213 does not have tag. **Completed 4/30/07.**
15. Valves underneath the cooling tower need to be labeled/identified as "overflow /valve normally open" and "drain/ valve normally closed". **Completed 4/30/07.**

**RAPID RESPONSE QUALITY CONTROL DAILY REPORT CONT'D.**

16.V-121 needs to open all the way it does not open all the way. It is currently locked in a partially open position. **Mark Williams took valve apart and showed MP that it seats fully. Completed 4/30/07.**

17.Label holding tank for RC-201. **Completed 4/27/07.**

18. Secure overhead water line known as "FTO Blowdown" at the 90 Deg. Ell above TIT-402 and PI-405. Thrust shakes pipe unacceptably. **Completed 4/27/07.**

Compressor maintenance to improve frequent low pressure alarm and error signal on compressor readout. J&H crew are already aware and have maintenance scheduled. Manufacturer's representative scheduled for Tuesday 5/1/07. Module was replaced 5/1/07. **Compressor ran without alarms for rest of day 5/1/07.**

19.Seal all building penetrations (electrical and piping penetrations). **Completed 4/30/07.**

**For Fire Department Inspection:**

Install a NAOH fire placard on outside of building at entrance to all 4 doors. **Completed 5/4/07.**

**New to list 5/4/07**

1. Caustic line installed by ERM/ICS near northern rollup door is leaking at a 90 degree elbow onto the concrete floor and curb. **Completed 5/9/07.**
2. Water Filter installed by ERM/ICS is leaking at the base. **Completed 5/8/07.**
3. T-901 installed by ERM/ICS lid is missing. Needs to be replaced. **Completed 5/9/07**
4. Condensate sump VE-2 has an air/vacuum leak. Bolts are loose. There may be a leak in the inspection port recently installed by J&H. **Completed 5/3/07.**

**New to list 5/7/07**

5. **The air diaphragm pump suction lines in condensate sumps DPE-D and DPE-A do not seem to be working correctly. JW to assess 5/14/07.**

Certification: I CERTIFY THAT THE ABOVE REPORT IS COMPLETE AND CORRECT AND THAT I, OR MY AUTHORIZED REPRESENTATIVE, HAVE INSPECTED ALL WORK PERFORMED THIS DAY BY THE PRIMARY CONTRACTOR AND EACH SUBCONTRACTOR AND HAVE DETERMINED THAT ALL MATERIALS, EQUIPMENT, AND WORKMANSHIP ARE IN STRICT COMPLIANCE WITH THE PLANS AND SPECIFICATIONS, EXCEPT AS NOTED ABOVE.

Mark Prostko

Contractor's designated quality control representative

RAPID RESPONSE QUALITY CONTROL DAILY REPORT		
Contractor's Name: T N & Associates		
Contract Number: <b>DACA45-00-D-0006</b>		
Site Name & Location: Pemaco; Maywood, CA		
<p style="text-align: center;">INSTRUCTIONS</p> <p>The contractor shall submit this form daily at the close of business to the on-site COE representative. Concurrently, the contractor shall provide electronic access to the completed forms to the COE district office and the area office.</p>		
Report #: 20070511	Delivery Order #:06	Date: 5-11-2007
Weather: Mostly Sunny	Temp. (max & min): 60- 75	Rainfall (in): .00
<p>1. Work performed today by primary contractor on site and/or off site:</p> <ol style="list-style-type: none"> <li>1) Dave Allen (TN&amp;A) on site at 0700 hours. Security was onsite. Jacob &amp; Hefner already on site and held their own tailgate meeting.</li> <li>2) 0700 hrs to 1930 hours Dave Allen was working on GW sampling items for Ewelina M.</li> <li>3) 1100 hrs MP and Hector Cervantes arrives on site. Hector and MP meet with Mark Williams (J&amp;H) to get an update of system operations and review any problems. Tailgate meeting with TN&amp;A personnel reviewed EM-385-1-1 Section 22.E.01 Suspended scaffolds (as it applies to the catwalk constructed/fabricated by CLEVECO for T-403/T-404). Overhead restrictions when standing on this platform. Be sure to wear hard hats.</li> <li>4) 1230 hours FQI-401 totalizer reading 664016 gallons.</li> <li>5) 1430 hrs Mark Williams left site.</li> <li>6) 1430 hours to 1930 hours MP and Hector ran FTO system. Opened manifold valves for lines DPE-A, DPE-B, DPE-C, DPE-D, VE-2, VE-3 and VE-4 100%. Dilution valve fully closed. Condensate Sumps (CS) continue to reach high water level status periodically. Hector pumped down all the CS's as needed. JW instructed crew to pump down all CS's. At 1430 hours there was ~12" water in T-101. Mark Williams advised that the pump for T-101 (P-501) had cycled once since yesterday and pumped ~ 150 gallons. MP took reading at FQI-501 at 00004281 gallons.</li> <li>7) ~1430 hrs Edwin from EarthTech on site.</li> <li>8) 1500 to 1645 hrs MP/Edwin opened the lids on carbon adsorbers T-403 and T-404 and inspected. Removed 6" of carbon from tank T-403 and placed in 55 gallon drum next to T-403. Will remove carbon when there is a scheduled carbon change out.</li> <li>9) ~1645 hrs changed (2 x 1 micron) bag filters at F-403/F-404. Pressure readings observed at SP-205/PI-410 was 16 psi, SP-206/PI-411 was 10 psi (T-403), SP-207/PI-413 was 11 psi, SP-208/PI-412 was 8 psi (T-404).</li> <li>10) ~1800 hours Edwin/Hector obtained PID readings from individual manifolds: DPE-A = 490 ppm, DPE-B = 2.5 ppm, DPE-C = 11.3 ppm, DPE-D = 16.3 ppm, VE-2 = 360 ppm, VE-3 = 56 ppm, VE-4 = 96 ppm.</li> <li>11) ~1845 hours running all lines at manifold except VE-1. (DPE-A, DPE-B, DPE-C, DPE-D, VE-2, VE-3 and VE-4 running at 20" Hg). Pumped out CS's all day. Flow at FTO is .50" H2O or 614 scfm at 235 PPM PID reading.</li> <li>12) 1900 hrs MP shut down FTO and waited for system to cool down. System shut off without problems by 2000 hrs.</li> <li>13) 1930 hrs MP secured TC Building and left site.</li> <li>14) Dust monitoring not performed today. The monitoring schedule includes 2 units placed at the following locations: 1) Upgradient - north side of ERH area, and 2) Downgradient - Northwest corner of Pemaco office trailer. A time-weighted average (TWA) of dust concentrations as well as maximum concentration (max.) recorded by each unit are indicated below:</li> </ol>		
RAPID RESPONSE QUALITY CONTROL DAILY REPORT CONT'D.		

Area (Unit #)	Daily	
	TWA (mg/m3)	Max (mg/m3)
Downgradient (1135)	NA	NA
Upgradient (1010)	NA	NA

2. Work performed by subcontractors on site and/or off site (include a complete description):

Subcontractors:

**EarthTech (Subcontractor)**

03:00 PM ~ 6:00 PM

(1 Technician)

1. Working with MP operating the FTO and GW systems. Helped MP drain and inspect T-403 and T-404. Changed out filters F-403/F-404 with 2 x 1 micron bag filters. Used vacuum pump to obtain individual PID readings at the vapor manifold.

**Work performed today by ERM and subcontractors on site and/or off site:**

Jacob and Hefner provided two-man crew (Mark Williams and John Parkes) and operated the GW treatment system/exposition wells with the exception of DA-4 and DB-4.

(Day 15)

**Note: Summary of Jacob & Hefner's daily log will be included as an attachment to this report beginning with today's report. Hours are as detailed on the Jacob & Hefner report attached.**

3. Complete and attach the daily personnel cost report at the end of this document and label as Appendix 1.

**[PROVIDED IN SEPARATE BINDER]**

4. On-site conditions which resulted in delayed progress:  
None

5. Type and results of inspections (indicate whether: P-Preparatory, I-Initial, or F-Final and include satisfactory work completed or deficiencies with action to be taken):

**Deficiencies** (Ongoing list and newly identified)

**PLC Acceptance Test notes from 4/10/07**

Revised list attached below. (Work Check List)

4/23/07 Caustic Tank T-901 was indicating low level alarms

As there was only 400 gallons of caustic delivered by ERM. **Delivery of 800 gallons of NAOH 5/8/07.**

5/3/07 Caustic line installed by ERM/ICS near northern rollup door is leaking at a 90 degree elbow onto the concrete floor and curb.

5/3/07 Water Filter installed by ERM/ICS is leaking at the base. **Completed 5/8/07.**

5/3/07 T-901 installed by ERM/ICS lid is missing. Needs to be replaced. **Completed 5/9/07.**

5/3/07 Condensate sump VE-2 has an air/vacuum leak. Bolts are loose. There may be a leak in the inspection port just installed by J&H. **Completed 5/3/07.**

**RAPID RESPONSE QUALITY CONTROL DAILY REPORT CONT'D.**

5/7/07 Condensate sump DPE-D the suction line for the air diaphragm pump seems to work intermittently.

**Work Check List**

**Observed During April 10, 2007 PLC Acceptance Check**

Revised 5/11/07 1500 hours  
Items in red not completed

1. Pipe Supports needed: Discharge from condensate pumps. **Completed 4/27/07.**
2. Program HMI screen to match colors of P&ID Drawings. (Previously requested.) **Mike Ebner working on 4/26/07 and 4/27/07. JW approved Monday 4/30/07.**
3. H-201 leaks in bottom gasket. See drip marks on frame as evidence. **Neil advised he corrected 4/26/07.**
4. Tag needed on H-202 valves ("Hot"). **"HOT" painted on side of H-202 4/26/07.**
5. DPIT/FE-101 is not reporting correctly on HMI screen. The pitot does not appear to be installed according to Dwyer Instruments recommendations and should be re-installed. (Currently installed in a tee) **Relocated by J&H 4/26/07.**
6. Check potable water pipes on south wall by roll up door for vibration during use. **OK per JW 4/26/07 pipes are at 10'6" and are adequately supported.**
7. P-502 secondary containment sump pump failed second time, continued shakedown testing of this pump required. Or replace pump. **Neil advised the problem was corrected. Not witnessed 4/26/07 will ask Neil to show/prove on 4/27/07.** Pump P-502 works but there seems to be a problem with the check valves on the 2" line to the T-402 as sometimes there is flow and sometimes there is not flow when pump is put in hand mode. Pump would not work consistently again today 4/30/07. **Crew took apart discharge line within the sump and shortened the length of pipe to straighten out the flexible hose. Pump ran in hand and auto several times as demonstrated by ERM/J&H. Completed 5/1/07.**
8. Observation port (1.25 inch) identified on "Approved for Construction" Drawing C-10C, for all condensate sumps, was not installed and is required. It was needed to check water levels. **Completed 4/30/07.**

**Added to list 4/24/07:**

9. Lock out /tag out required for newly installed caustic fill line at T-901. **Completed 4/26/07.**
10. Brine tank leaks at hole located on side of tank closest to the floor. Ed Tung must be contacted by ERM. **Completed 4/30/07.**

**Added to list 4/25/07:**

11. Sample port tags at T-301/T-302 are in wrong positions. The correct identifications are written in marker pen on stainless steel valve near the tags. (SP-105, SP-106, SP-107 and SP-108). **Completed 4/26/07.**
12. T-601 auto-drain valve on bottom of tank (out of view) is leaking. **Completed 4/26/07.**
13. Valve adjacent to V-210 (on the line leading to holding tank for RC-201 on cooling tower pad) needs to be tagged out and labeled as "valve normally closed". **Completed 4/30/07.**
14. Discharge valve V-213 does not have tag. **Completed 4/30/07.**

**RAPID RESPONSE QUALITY CONTROL DAILY REPORT CONT'D.**

15. Valves underneath the cooling tower need to be labeled/identified as "overflow /valve normally open" and "drain/ valve normally closed". **Completed 4/30/07.**
16. V-121 needs to open all the way it does not open all the way. It is currently locked in a partially open position. **Mark Williams took valve apart and showed MP that it seats fully. Completed 4/30/07.**
17. Label holding tank for RC-201. **Completed 4/27/07.**
18. Secure overhead water line known as "FTO Blowdown" at the 90 Deg. Ell above

TIT-402 and PI-405. Thrust shakes pipe unacceptably. **Completed 4/27/07.**

19. Compressor maintenance to improve frequent low pressure alarm and error signal on compressor readout. J&H crew are already aware and have maintenance scheduled. Manufacturer's representative scheduled for Tuesday 5/1/07. Module was replaced 5/1/07. **Compressor ran without alarms for rest of day 5/1/07.**

20. Seal all building penetrations (electrical and piping penetrations). **Completed 4/30/07.**

**For Fire Department Inspection:**

21. Install a NAOH fire placard on outside of building at entrance to all 4 doors. **Completed 5/4/07.**

**New to list 5/4/07**

1. Caustic line installed by ERM/ICS near northern rollup door is leaking at a 90 degree elbow onto the concrete floor and curb. **Completed 5/9/07.**
2. Water Filter installed by ERM/ICS is leaking at the base. **Completed 5/8/07.**
3. T-901 installed by ERM/ICS lid is missing. Needs to be replaced. **Completed 5/9/07**
4. Condensate sump VE-2 has an air/vacuum leak. Bolts are loose. There may be a leak in the inspection port recently installed by J&H. **Completed 5/3/07.**

**New to list 5/7/07**

5. **The air diaphragm pump suction lines in condensate sumps DPE-D and DPE-A do not seem to be working correctly. JW to assess during the week of 5/14/07.**

Certification: I CERTIFY THAT THE ABOVE REPORT IS COMPLETE AND CORRECT AND THAT I, OR MY AUTHORIZED REPRESENTATIVE, HAVE INSPECTED ALL WORK PERFORMED THIS DAY BY THE PRIMARY CONTRACTOR AND EACH SUBCONTRACTOR AND HAVE DETERMINED THAT ALL MATERIALS, EQUIPMENT, AND WORKMANSHIP ARE IN STRICT COMPLIANCE WITH THE PLANS AND SPECIFICATIONS, EXCEPT AS NOTED ABOVE.

Mark Prostk

Contractor's designated quality control representative

## RAPID RESPONSE QUALITY CONTROL DAILY REPORT

Contractor's Name: T N & Associates

Contract Number: **DACA45-00-D-0006**

Site Name & Location: Pemaco; Maywood, CA

### INSTRUCTIONS

The contractor shall submit this form daily at the close of business to the on-site COE representative. Concurrently, the contractor shall provide electronic access to the completed forms to the COE district office and the area office.

Report #: 20070514

Delivery Order #:06

Date: 5-14-2007

Weather: Partly Sunny

Temp. (max & min): 62- 71

Rainfall (in): .00

1. Work performed today by primary contractor on site and/or off site:

- 1) Dave Allen (TN&A) on site ~0730 hours. Security was onsite. Jacob & Hefner already on site and held their own tailgate meeting. Danny Chen on site in AM. There are no other personnel scheduled today therefore safety topic today was the reminder to use nitrile gloves when handling GW and when replacing used bag filters at F-401 through F-404.
- 2) 0730 hrs to ~1900 hours Dave Allen was working on small SUMMA canister sampling and preparing for more sampling scheduled on Tuesday 5/15/07 with Mark Wanek (TN&A).
- 3) 1100 hrs MP arrives on site. MP meeting with Mark Williams (J&H) to get an update of system operations and review any problems. Mark Williams stated that the bag filters were requiring replacement every 30 minutes therefore he had turned off the GW system sometime prior to MP arrival.
- 4) 1200 hrs MP discussed GW system with JW and agreed to pick up high efficiency bag filters for F-401/F-402 with 25/10 microns. Danny Chen was dispatched from the site to McMaster-Carr in Sante Fe Springs to pick up several boxes of 25/10 micron filter bags. Per agreement with John Hartley TN&A also purchased a vacuum pump from McMaster-Carr and this was picked up today with the High efficiency bag filters (HEBF's)
- 5) 1430 hrs Mark Williams left site.
- 6) 1450 hrs FQI-402 totalizer reading 725520 gallons.
- 7) 1500 hrs FQI-501 totalizer reading 00004715 gallons.
- 8) 1430 hours to 1930 hours MP assumed operations of both FTO and GW systems. Manifold valves for lines DPE-A, DPE-B, DPE-C, DPE-D, VE-3 and VE-4 were open 100%. Dilution valve fully closed. Condensate Sumps (CS) were full of water. JW instructed crew to let water from CS's enter T-101.
- 9) 1434 MP noticed a pump pressure high alarm T-401 indicating filter bags at F-401 and F-402 were clogged and required replacement. MP contacted Edwin from EarthTech to come to the site to assist with getting the GW system running again. Danny Chen back on site with the 25/10 micron HEBF's. MP changed filters at F-401/F-402 at ~1500 hrs
- 10) ~1500 hrs Edwin from EarthTech on site.
- 11) 1500 to 1800 hrs MP/Edwin and Danny Chen worked on getting the GW system running smoothly. It was decided to shut down wells DA-4, DA-8, DA-9, DA-10 and DA-12. Wells were shut down and GW system was monitored for the rest of the day.

**RAPID RESPONSE QUALITY CONTROL DAILY REPORT CONT'D.**

- 12) 1735 hrs changed bag filters at F-401/F-402 to 25 micron straight filters.
- 13) 1810 FQI-501 reading 00005179 gallons.
- 14) 1900 hrs MP/DA changed bag filters at F-403/F-404 to 5/1 HEBF's.
- 15) 1915 hrs MP changed bag filters at F-401/F-402 to 25/10 HEBF's.
- 16) 1930 hrs MP shut down FTO and waited for system to cool down. System shut off without problems by 1945 hrs.
- 17) 1945 hrs MP secured TC Building and left site.
- 18) Dust monitoring not performed today. The monitoring schedule includes 2 units placed at the following locations: 1) Upgradient - north side of ERH area, and 2) Downgradient - Northwest corner of Pemaco office trailer. A time-weighted average (TWA) of dust concentrations as well as maximum concentration (max.) recorded by each unit are indicated below:

Area (Unit #)	Daily	
	<u>TWA (mg/m3)</u>	<u>Max (mg/m3)</u>
Downgradient (1135)	NA	NA
Upgradient (1010)	NA	NA

2. Work performed by subcontractors on site and/or off site (include a complete description):

Subcontractors:

**EarthTech (Subcontractor)**

**03:00 PM ~ 6:00 PM**

**(1 Technician)**

1. Working with MP operating the FTO and GW systems. Helped MP changed out filters at F-403/F-404 with 2 x 5/1 micron HEBF's and also changed out F-401/F-402 with 25 micron bag filters until GW2 and GW3 lines started to show signs of less turbidity.

**Work performed today by ERM and subcontractors on site and/or off site:**

Jacob and Hefner provided two-man crew (Mark Williams and Thaddeus Carrol (new J&H man first day) and operated the GW treatment system/exposition wells with the exception of DA-4 and DB-4.

Thaddeus gave MP a copy of his 40/8 hr OSHA certificates.

(Day 16)

**Note: Summary of Jacob & Hefner's daily log will be included as an attachment to this report beginning with today's report. Hours are as detailed on the Jacob & Hefner report attached.**

3. Complete and attach the daily personnel cost report at the end of this document and label as Appendix 1.

**[PROVIDED IN SEPARATE BINDER]**

4. On-site conditions which resulted in delayed progress:  
None

**RAPID RESPONSE QUALITY CONTROL DAILY REPORT CONT'D.**

5. Type and results of inspections (indicate whether: P-Preparatory, I-Initial, or F-Final and include satisfactory work completed or deficiencies with action to be taken):

**Deficiencies** (Ongoing list and newly identified)

**Work Check List**

**Observed During April 10, 2007 PLC Acceptance Check**

Revised 5/14/07 1500 hours

Items in red not completed

1. Pipe Supports needed: Discharge from condensate pumps. **Completed 4/27/07.**
2. Program HMI screen to match colors of P&ID Drawings. (Previously requested.) **Mike Ebner working on 4/26/07 and 4/27/07. JW approved Monday 4/30/07.**
3. H-201 leaks in bottom gasket. See drip marks on frame as evidence. **Neil advised he corrected 4/26/07.**
4. Tag needed on H-202 valves ("Hot"). **"HOT" painted on side of H-202 4/26/07.**
5. DPIT/FE-101 is not reporting correctly on HMI screen. The pitot does not appear to be installed according to Dwyer Instruments recommendations and should be re-installed. (Currently installed in a tee) **Relocated by J&H 4/26/07.**
6. Check potable water pipes on south wall by roll up door for vibration during use. **OK per JW 4/26/07 pipes are at 10'6" and are adequately supported.**
7. P-502 secondary containment sump pump failed second time, continued shakedown testing of this pump required. Or replace pump. **Neil advised the problem was corrected. Not witnessed 4/26/07 will ask Neil to show/prove on 4/27/07.** Pump P-502 works but there seems to be a problem with the check valves on the 2" line to the T-402 as sometimes there is flow and sometimes there is not flow when pump is put in hand mode. Pump would not work consistently again today 4/30/07. **Crew took apart discharge line within the sump and shortened the length of pipe to straighten out the flexible hose. Pump ran in hand and auto several times as demonstrated by ERM/J&H. Completed 5/1/07.**
8. Observation port (1.25 inch) identified on "Approved for Construction" Drawing C-10C, for all condensate sumps, was not installed and is required. It was needed to check water levels. **Completed 4/30/07.**

**Added to list 4/24/07:**

9. Lock out /tag out required for newly installed caustic fill line at T-901. **Completed 4/26/07.**
10. Brine tank leaks at hole located on side of tank closest to the floor. Ed Tung must be contacted by ERM. **Completed 4/30/07.**

**Added to list 4/25/07:**

11. Sample port tags at T-301/T-302 are in wrong positions. The correct identifications are written in marker pen on stainless steel valve near the tags. (SP-105, SP-106, SP-107 and SP-108). **Completed 4/26/07.**

**RAPID RESPONSE QUALITY CONTROL DAILY REPORT CONT'D.**

12. T-601 auto-drain valve on bottom of tank (out of view) is leaking. **Completed 4/26/07.**
13. Valve adjacent to V-210 (on the line leading to holding tank for RC-201 on cooling tower pad) needs to be tagged out and labeled as "valve normally closed". **Completed 4/30/07.**
14. Discharge valve V-213 does not have tag. **Completed 4/30/07.**
- 15.
16. Valves underneath the cooling tower need to be labeled/identified as "overflow /valve normally open" and "drain/ valve normally closed". **Completed 4/30/07.**
17. V-121 needs to open all the way it does not open all the way. It is currently locked in a partially open position. **Mark Williams took valve apart and showed MP that it seats fully. Completed 4/30/07.**
18. Label holding tank for RC-201. **Completed 4/27/07.**
19. Secure overhead water line known as "FTO Blowdown" at the 90 Deg. Ell above TIT-402 and PI-405. Thrust shakes pipe unacceptably. **Completed 4/27/07.**
20. Compressor maintenance to improve frequent low pressure alarm and error signal on compressor readout. J&H crew are already aware and have maintenance scheduled. Manufacturer's representative scheduled for Tuesday 5/1/07. Module was replaced 5/1/07. **Compressor ran without alarms for rest of day 5/1/07.**
21. Seal all building penetrations (electrical and piping penetrations). **Completed 4/30/07.**

**For Fire Department Inspection:**

22. Install a NAOH fire placard on outside of building at entrance to all 4 doors. **Completed 5/4/07.**

**New to list 5/4/07**

1. Caustic line installed by ERM/ICS near northern rollup door is leaking at a 90 degree elbow onto the concrete floor and curb. **Completed 5/9/07.**
2. Water Filter installed by ERM/ICS is leaking at the base. **Completed 5/8/07.**
3. T-901 installed by ERM/ICS lid is missing. Needs to be replaced. **Completed 5/9/07**
4. Condensate sump VE-2 has an air/vacuum leak. Bolts are loose. There may be a leak in the inspection port recently installed by J&H. **Completed 5/3/07.**

**New to list 5/7/07**

5. **The air diaphragm pump suction lines in condensate sumps DPE-D and DPE-A do not seem to be working correctly. JW to assess during the week of 5/14/07.**

Certification: I CERTIFY THAT THE ABOVE REPORT IS COMPLETE AND CORRECT AND THAT I, OR MY AUTHORIZED REPRESENTATIVE, HAVE INSPECTED ALL WORK PERFORMED THIS DAY BY THE PRIMARY CONTRACTOR AND EACH SUBCONTRACTOR AND HAVE DETERMINED THAT ALL MATERIALS, EQUIPMENT, AND WORKMANSHIP ARE IN STRICT COMPLIANCE WITH THE PLANS AND SPECIFICATIONS, EXCEPT AS NOTED ABOVE.

Mark Prostko

Contractor's designated quality control representative

## RAPID RESPONSE QUALITY CONTROL DAILY REPORT

Contractor's Name: T N & Associates

Contract Number: **DACA45-00-D-0006**

Site Name & Location: Pemaco; Maywood, CA

### INSTRUCTIONS

The contractor shall submit this form daily at the close of business to the on-site COE representative. Concurrently, the contractor shall provide electronic access to the completed forms to the COE district office and the area office.

Report #: 20070515

Delivery Order #:06

Date: 5-15-2007

Weather: Partly Sunny

Temp. (max & min): 62- 75

Rainfall (in): .00

1. Work performed today by primary contractor on site and/or off site:

- 1) Dave Allen (TN&A) and John Wingate on site ~0730 hours. Security was onsite. Jacob & Hefner already on site and held their own tailgate meeting. Safety topic today was the housekeeping and safe uses of PPE due to the many GW filter bag changeouts experienced in the past few days.
- 2) 0730 hrs to ~1830 hours Dave Allen was sampling wells with Mark Wanek (TN&A).
- 3) 1100 hrs MP arrives on site. MP meeting with John Wingate to get an update of system operations and review any problems. Mark Williams indicated that the GW system ran overnight without incident.
- 4) 1210 hrs FQI-501 00005396 gallons.
- 5) 1215 hrs FQI0402 771275 gallons.
- 6) 1230 hrs MP checked TC systems. All VE and DPE manifold lines are open and pulling 19" Hg.
- 7) 1430 hrs Mark Williams left site.
- 8) 1430 hours to 2000 hours MP/Edwin and Hector assumed operations of both FTO and GW systems. Manifold valves for lines DPE-A, DPE-B, DPE-C, DPE-D, VE-1, VE-2, VE-3 and VE-4 were open 100%. Dilution valve fully closed. Condensate Sumps DPE-A, B, C and D (CS) were full of water. JW instructed crew to continue to pump down CS's.
- 9) ~1400 hrs Edwin from EarthTech on site.
- 10) 1415 hrs JW changed filters at F-401/F-402 with 25/10 HEBF's.
- 11) 1430 to 2000 hrs MP/Edwin worked on getting the GW system running smoothly. It was decided to shut down wells DA-6, DA-7, and DA-11 today. These wells were shut down and GW system was monitored for the rest of the day.
- 12) Between 1430 hrs and 1830 hrs MP changed bag filters at F-403/F-404 a total of 4 times (2 bag filters 5/1 micron high efficiency bag filters per change).
- 13) 1915 hrs MP changed bag filters at F-401/F-402 to 25/10 HEBF's.
- 14) 1900 hrs MP turned off air supply to GW-2 and GW-3 for the overnight period.
- 15) 1915 hrs to 2000 hrs Edwin and Hector concentrated on pumping down all CS's that are full of water prior to leaving the system on for the overnight period.
- 16) 1930 FQI-501 reading 00006206 gallons.
- 17) 2000 hrs MP secured TC Building and left site.

**RAPID RESPONSE QUALITY CONTROL DAILY REPORT CONT'D.**

- 18) Dust monitoring not performed today. The monitoring schedule includes 2 units placed at the following locations: 1) Upgradient - north side of ERH area, and 2) Downgradient - Northwest corner of Pemaco office trailer. A time-weighted average (TWA) of dust concentrations as well as maximum concentration (max.) recorded by each unit are indicated below:

Area (Unit #)	Daily	
	<u>TWA (mg/m3)</u>	<u>Max (mg/m3)</u>
Downgradient (1135)	NA	NA
Upgradient (1010)	NA	NA

2. Work performed by subcontractors on site and/or off site (include a complete description):

Subcontractors:

**EarthTech (Subcontractor)**

**03:00 PM ~ 8:00 PM**

**(1 Technician)**

1. Working with MP operating the FTO and GW systems. Helped MP changed out filters at F-403/F-404 with 2 x 5/1 micron HEBF's and also changed out F-401/F-402 with 25 micron bag filters. Inspected perched zone well vaults and took vacuum/flow observations for JW.

**Work performed today by ERM and subcontractors on site and/or off site:**

Jacob and Hefner provided two-man crew (Mark Williams and Thaddeus Carrol and operated the FTO and GW treatment systems/exposition wells with the exception of DA-4, DB-4, DA-6, DA-7, DA-9, DA-10, DA-11 and DA-12.  
(Day 17)

**Note: Summary of Jacob & Hefner's daily log will be included as an attachment to this report beginning with today's report. Hours are as detailed on the Jacob & Hefner report attached.**

3. Complete and attach the daily personnel cost report at the end of this document and label as Appendix 1.

**[PROVIDED IN SEPARATE BINDER]**

4. On-site conditions which resulted in delayed progress:  
None

5. Type and results of inspections (indicate whether: P-Preparatory, I-Initial, or F-Final and include satisfactory work completed or deficiencies with action to be taken):

**Deficiencies** (Ongoing list and newly identified)

**Work Check List**

**Observed During April 10, 2007 PLC Acceptance Check**

Revised 5/15/07 1500 hours

Items in red not completed

**RAPID RESPONSE QUALITY CONTROL DAILY REPORT CONT'D.**

1. Pipe Supports needed: Discharge from condensate pumps. **Completed 4/27/07.**
2. Program HMI screen to match colors of P&ID Drawings. (Previously requested.) **Mike Ebner working on 4/26/07 and 4/27/07. JW approved Monday 4/30/07.**
3. H-201 leaks in bottom gasket. See drip marks on frame as evidence. **Neil advised he corrected 4/26/07.**
4. Tag needed on H-202 valves ("Hot"). **"HOT" painted on side of H-202 4/26/07.**
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8. Observation port (1.25 inch) identified on "Approved for Construction" Drawing C-10C, for all condensate sumps, was not installed and is required. It was needed to check water levels. **Completed 4/30/07.**

**Added to list 4/24/07:**

9. Lock out /tag out required for newly installed caustic fill line at T-901. **Completed 4/26/07.**
10. Brine tank leaks at hole located on side of tank closest to the floor. Ed Tung must be contacted by ERM. **Completed 4/30/07.**

**Added to list 4/25/07:**

11. Sample port tags at T-301/T-302 are in wrong positions. The correct identifications are written in marker pen on stainless steel valve near the tags. (SP-105, SP-106, SP-107 and SP-108). **Completed 4/26/07.**
12. T-601 auto-drain valve on bottom of tank (out of view) is leaking. **Completed 4/26/07.**
13. Valve adjacent to V-210 (on the line leading to holding tank for RC-201 on cooling tower pad) needs to be tagged out and labeled as "valve normally closed". **Completed 4/30/07.**
14. Discharge valve V-213 does not have tag. **Completed 4/30/07.**
15. Valves underneath the cooling tower need to be labeled/identified as "overflow /valve normally open" and "drain/ valve normally closed". **Completed 4/30/07.**

**RAPID RESPONSE QUALITY CONTROL DAILY REPORT CONT'D.**

16.V-121 needs to open all the way it does not open all the way. It is currently locked in a partially open position. **Mark Williams took valve apart and showed MP that it seats fully. Completed 4/30/07.**

17.Label holding tank for RC-201. **Completed 4/27/07.**

18. Secure overhead water line known as "FTO Blowdown" at the 90 Deg. Ell above TIT-402 and PI-405. Thrust shakes pipe unacceptably. **Completed 4/27/07.**

19.Compressor maintenance to improve frequent low pressure alarm and error signal on compressor readout. J&H crew are already aware and have maintenance scheduled. Manufacturer's representative scheduled for Tuesday 5/1/07. Module was replaced 5/1/07. **Compressor ran without alarms for rest of day 5/1/07.**

20. Seal all building penetrations (electrical and piping penetrations). **Completed 4/30/07.**

**For Fire Department Inspection:**

21.Install a NAOH fire placard on outside of building at entrance to all 4 doors. **Completed 5/4/07.**

**New to list 5/4/07**

1. Caustic line installed by ERM/ICS near northern rollup door is leaking at a 90 degree elbow onto the concrete floor and curb. **Completed 5/9/07.**
2. Water Filter installed by ERM/ICS is leaking at the base. **Completed 5/8/07.**
3. T-901 installed by ERM/ICS lid is missing. Needs to be replaced. **Completed 5/9/07**
4. Condensate sump VE-2 has an air/vacuum leak. Bolts are loose. There may be a leak in the inspection port recently installed by J&H. **Completed 5/3/07.**

**New to list 5/7/07**

5. **The air diaphragm pump suction lines in condensate sumps DPE-D and DPE-A do not seem to be working correctly. JW to assess during the week of 5/14/07.**

Certification: I CERTIFY THAT THE ABOVE REPORT IS COMPLETE AND CORRECT AND THAT I, OR MY AUTHORIZED REPRESENTATIVE, HAVE INSPECTED ALL WORK PERFORMED THIS DAY BY THE PRIMARY CONTRACTOR AND EACH SUBCONTRACTOR AND HAVE DETERMINED THAT ALL MATERIALS, EQUIPMENT, AND WORKMANSHIP ARE IN STRICT COMPLIANCE WITH THE PLANS AND SPECIFICATIONS, EXCEPT AS NOTED ABOVE.

Mark Prostko

Contractor's designated quality control representative

# **RAPID RESPONSE QUALITY CONTROL DAILY REPORT**

Contractor's Name: T N & Associates

Contract Number: **DACA45-00-D-0006**

Site Name & Location: Pemaco; Maywood, CA

## **INSTRUCTIONS**

The contractor shall submit this form daily at the close of business to the on-site COE representative. Concurrently, the contractor shall provide electronic access to the completed forms to the COE district office and the area office.

Report #: 20070516

Delivery Order #:06

Date: 5-16-2007

Weather: Partly Sunny

Temp. (max & min): 60- 65

Rainfall (in): .00

### 1. Work performed today by primary contractor on site and/or off site:

- 1) Dave Allen (TN&A) on site ~0730 hours. Security was onsite. Jacob & Hefner already on site and held their own tailgate meeting.
- 2) 0730 hrs to ~1830 hours Dave Allen was sampling wells with Mark Wanek (TN&A).
- 3) Dacre Bush on site until 1500 hrs. Reviewed system sampling parameters with Hector Cervantes.
- 4) 1045 hrs MP arrives on site. MP meeting with Mark Williams to get an update of system operations and review any problems. Mark Williams indicated that the GW system ran overnight without incident.
- 5) 1100 hrs Mark Williams and John Wingate advised MP that the FTO system will be run at a lower vacuum rating (15" Hg). This adaptation seems to have had a positive effect on the TSS of the GW coming into the TC. Filter bag changes today were not necessary during the period 0600 hours to 1900 hrs. Exposition wells previously turned off in the past two days were turned back on with the exception of DA-4 and DA-7.
- 6) 1230 hrs FQI-501 00014859 gallons.
- 7) 1235 hrs FQI0402 837130 gallons.
- 8) 1230 hrs MP checked TC systems. All VE and DPE manifold lines are open and at ~15" Hg.
- 9) 1430 hrs Mark Williams left site.
- 10) 1430 hours to 2000 hours MP and Hector assumed operations at approximately 1435 hrs FTO shut down due to high-high level alarm at T-402. MP observed PLC and saw that Mike Ebner was making some changes to some of the programming.
- 11) ~1530 hrs Mark Williams called MP and advised that the FTO shut down because of the closed valves prior to F-403/F-404. Valves were inadvertently left closed by J&H personnel after checking status/condition of HEBF's at F-403/F-404.
- 12) ~1530 hrs to 1900 hrs did not run FTO. Observed site conditions and pumped down all condensate sumps (CS's) that were full of water. (DPE-A, DPE-B, DPE-C, DPE-D and VE-2). Noticed that there was a water leak at T-101.
- 13) 1600 hrs Rick Lainhart called MP for status of operations.
- 14) 1900 hrs MP secured TC Building and left site.
- 15) Dust monitoring not performed today. The monitoring schedule includes 2 units placed at the following locations: 1) Upgradient - north side of ERH area, and 2) Downgradient - Northwest corner of Pemaco office trailer. A time-weighted average (TWA) of dust concentrations as well as maximum concentration (max.) recorded by each unit are indicated below:

**RAPID RESPONSE QUALITY CONTROL DAILY REPORT CONT'D.**

Area (Unit #)	Daily	
	TWA (mg/m3 )	Max (mg/m3 )
Downgradient (1135)	NA	NA
Upgradient (1010)	NA	NA

2. Work performed by subcontractors on site and/or off site (include a complete description):

Subcontractors:

**Work performed today by ERM and subcontractors on site and/or off site:**

Jacob and Hefner provided two-man crew (Mark Williams and Thaddeus Carrol and operated the FTO and GW treatment systems/exposition wells with the exception of DA-4 and DA-7.

(Day 18)

**Note: Summary of Jacob & Hefner's daily log will be included as an attachment to this report beginning with today's report. Hours are as detailed on the Jacob & Hefner report attached.**

3. Complete and attach the daily personnel cost report at the end of this document and label as Appendix 1.

**[PROVIDED IN SEPARATE BINDER]**

4. On-site conditions which resulted in delayed progress:  
None

5. Type and results of inspections (indicate whether: P-Preparatory, I-Initial, or F-Final and include satisfactory work completed or deficiencies with action to be taken):

**Deficiencies** (Ongoing list and newly identified)

**Work Check List**

**Observed During April 10, 2007 PLC Acceptance Check**

Revised 5/16/07 1500 hours

**Items in red not completed**

1. Pipe Supports needed: Discharge from condensate pumps. **Completed 4/27/07.**
2. Program HMI screen to match colors of P&ID Drawings. (Previously requested.) **Mike Ebner working on 4/26/07 and 4/27/07. JW approved Monday 4/30/07.**
3. H-201 leaks in bottom gasket. See drip marks on frame as evidence. **Neil advised he corrected 4/26/07.**
4. Tag needed on H-202 valves ("Hot"). **"HOT" painted on side of H-202 4/26/07.**
5. DPIT/FE-101 is not reporting correctly on HMI screen. The pitot does not appear to be installed according to Dwyer Instruments recommendations and should be re-installed. (Currently installed in a tee) **Relocated by J&H 4/26/07.**

**RAPID RESPONSE QUALITY CONTROL DAILY REPORT CONT'D.**

6. Check potable water pipes on south wall by roll up door for vibration during use. **OK per JW 4/26/07 pipes are at 10'6" and are adequately supported.**
7. P-502 secondary containment sump pump failed second time, continued shakedown testing of this pump required. Or replace pump. **Neil advised the problem was corrected. Not witnessed 4/26/07 will ask Neil to show/prove on 4/27/07.** Pump P-502 works but there seems to be a problem with the check valves on the 2" line to the T-402 as sometimes there is flow and sometimes there is not flow when pump is put in hand mode. Pump would not work consistently again today 4/30/07. **Crew took apart discharge line within the sump and shortened the length of pipe to straighten out the flexible hose. Pump ran in hand and auto several times as demonstrated by ERM/J&H. Completed 5/1/07.**
8. Observation port (1.25 inch) identified on "Approved for Construction" Drawing C-10C, for all condensate sumps, was not installed and is required. It was needed to check water levels. **Completed 4/30/07.**

**Added to list 4/24/07:**

9. Lock out /tag out required for newly installed caustic fill line at T-901. **Completed 4/26/07.**
10. Brine tank leaks at hole located on side of tank closest to the floor. Ed Tung must be contacted by ERM. **Completed 4/30/07.**

**Added to list 4/25/07:**

11. Sample port tags at T-301/T-302 are in wrong positions. The correct identifications are written in marker pen on stainless steel valve near the tags. (SP-105, SP-106, SP-107 and SP-108). **Completed 4/26/07.**
12. T-601 auto-drain valve on bottom of tank (out of view) is leaking. **Completed 4/26/07.**
13. Valve adjacent to V-210 (on the line leading to holding tank for RC-201 on cooling tower pad) needs to be tagged out and labeled as "valve normally closed". **Completed 4/30/07.**
14. Discharge valve V-213 does not have tag. **Completed 4/30/07.**
15. Valves underneath the cooling tower need to be labeled/identified as "overflow /valve normally open" and "drain/ valve normally closed". **Completed 4/30/07.**
16. V-121 needs to open all the way it does not open all the way. It is currently locked in a partially open position. **Mark Williams took valve apart and showed MP that it seats fully. Completed 4/30/07.**
17. Label holding tank for RC-201. **Completed 4/27/07.**
18. Secure overhead water line known as "FTO Blowdown" at the 90 Deg. Ell above TIT-402 and PI-405. Thrust shakes pipe unacceptably. **Completed 4/27/07.**
19. Compressor maintenance to improve frequent low pressure alarm and error signal on compressor readout. J&H crew are already aware and have maintenance scheduled. Manufacturer's representative scheduled for Tuesday 5/1/07. Module was replaced 5/1/07. **Compressor ran without alarms for rest of day 5/1/07.**
20. Seal all building penetrations (electrical and piping penetrations). **Completed 4/30/07.**

RAPID RESPONSE QUALITY CONTROL DAILY REPORT CONT'D.

**For Fire Department Inspection:**

21. Install a NAOH fire placard on outside of building at entrance to all 4 doors. **Completed 5/4/07.**

**New to list 5/4/07**

1. Caustic line installed by ERM/ICS near northern rollup door is leaking at a 90 degree elbow onto the concrete floor and curb. **Completed 5/9/07.**
2. Water Filter installed by ERM/ICS is leaking at the base. **Completed 5/8/07.**
3. T-901 installed by ERM/ICS lid is missing. Needs to be replaced. **Completed 5/9/07**
4. Condensate sump VE-2 has an air/vacuum leak. Bolts are loose. There may be a leak in the inspection port recently installed by J&H. **Completed 5/3/07.**

**New to list 5/7/07**

5. The air diaphragm pump suction lines in condensate sumps DPE-D and DPE-A do not seem to be working correctly. **JW to assess during the week of 5/14/07.**

**New to list 5/16/07**

6. T-101 has leak on flange that faces west side of TC.

Certification: I CERTIFY THAT THE ABOVE REPORT IS COMPLETE AND CORRECT AND THAT I, OR MY AUTHORIZED REPRESENTATIVE, HAVE INSPECTED ALL WORK PERFORMED THIS DAY BY THE PRIMARY CONTRACTOR AND EACH SUBCONTRACTOR AND HAVE DETERMINED THAT ALL MATERIALS, EQUIPMENT, AND WORKMANSHIP ARE IN STRICT COMPLIANCE WITH THE PLANS AND SPECIFICATIONS, EXCEPT AS NOTED ABOVE.

\_\_\_\_\_  
Mark Prostko

Contractor's designated quality control representative

**RAPID RESPONSE QUALITY CONTROL DAILY REPORT**

Contractor's Name: T N &amp; Associates

Contract Number: **DACA45-00-D-0006**

Site Name &amp; Location: Pemaco; Maywood, CA

**INSTRUCTIONS**

The contractor shall submit this form daily at the close of business to the on-site COE representative. Concurrently, the contractor shall provide electronic access to the completed forms to the COE district office and the area office.

Report #: 20070517

Delivery Order #:06

Date: 5-17-2007

Weather: Partly Sunny

Temp. (max &amp; min): 60- 71

Rainfall (in): .00

## 1. Work performed today by primary contractor on site and/or off site:

- 1) Dave Allen (TN&A) on site ~0730 hours. Security was onsite. Jacob & Hefner already on site and held their own tailgate meeting. MP on site at 0845 hours. Tailgate safety meeting with employees was a reminder that black widow spiders have been sited recently in both well vaults and also debris piles/stockpile areas in ERH area.
- 2) 0730 hrs to ~1845 hours Dave Allen was sampling wells with Mark Wanek (TN&A).
- 3) 0900 MP meeting with Mark Williams to get an update of system operations and review any problems. Mark Williams indicated that the GW system ran overnight without incident.
- 4) 1000 FTO shut down by accidental bumping of the E-Stop inside control room.
- 5) 1030 hrs MP, JW, and Mark Williams conducted a conference call to review startup procedures for the FTO and to make adjustments/minor changes to protocols established two weeks prior to the system establishing some run time.
- 6) 1205 hrs FQI-501 00016506 gallons.
- 7) 1205 hrs FQI0402 877760 gallons.
- 8) 1230 hrs MP checked TC systems. All VE and DPE manifold lines are open and at ~16.5" Hg.
- 9) 1300 hrs Mark Williams left site.
- 10) 1400 hrs Thaddeus Carroll (J&H) left site.
- 11) 1630 hrs MP checking on FQI-501 and reset the totalizer to 00000000 gallons. Prior to reset the total flow from T-101 to date was 00018804 gallons.
- 12) 1400 hours to 1800 hours MP and Hector assumed operations of FTO and GW systems. Systems (GW and FTO) running well and MP is locking down TC for the night. All systems running.
- 13) Dust monitoring not performed today. The monitoring schedule includes 2 units placed at the following locations: 1) Upgradient - north side of ERH area, and 2) Downgradient - Northwest corner of Pemaco office trailer. A time-weighted average (TWA) of dust concentrations as well as maximum concentration (max.) recorded by each unit are indicated below:

**RAPID RESPONSE QUALITY CONTROL DAILY REPORT CONT'D.**

Area (Unit #)	Daily	
	TWA (mg/m3 )	Max (mg/m3 )
Downgradient (1135)	NA	NA
Upgradient (1010)	NA	NA

2. Work performed by subcontractors on site and/or off site (include a complete description):

Subcontractors:

**Work performed today by ERM and subcontractors on site and/or off site:**

Jacob and Hefner provided two-man crew (Mark Williams and Thaddeus Carrol and operated the FTO and GW treatment systems/exposition wells with the exception of DA-4 and DA-7.

(Day 19)

**Note: Summary of Jacob & Hefner's daily log will be included as an attachment to this report beginning with today's report. Hours are as detailed on the Jacob & Hefner report attached.**

3. Complete and attach the daily personnel cost report at the end of this document and label as Appendix 1.

**[PROVIDED IN SEPARATE BINDER]**

4. On-site conditions which resulted in delayed progress:  
None

5. Type and results of inspections (indicate whether: P-Preparatory, I-Initial, or F-Final and include satisfactory work completed or deficiencies with action to be taken):

**Deficiencies** (Ongoing list and newly identified)

**Work Check List**

**Observed During April 10, 2007 PLC Acceptance Check**

Revised 5/16/07 1500 hours

**Items in red not completed**

1. Pipe Supports needed: Discharge from condensate pumps. **Completed 4/27/07.**
2. Program HMI screen to match colors of P&ID Drawings. (Previously requested.) **Mike Ebner working on 4/26/07 and 4/27/07. JW approved Monday 4/30/07.**
3. H-201 leaks in bottom gasket. See drip marks on frame as evidence. **Neil advised he corrected 4/26/07.**
4. Tag needed on H-202 valves ("Hot"). **"HOT" painted on side of H-202 4/26/07.**
5. DPIT/FE-101 is not reporting correctly on HMI screen. The pitot does not appear to be installed according to Dwyer Instruments recommendations and should be

re-installed. (Currently installed in a tee) **Relocated by J&H 4/26/07.**

**RAPID RESPONSE QUALITY CONTROL DAILY REPORT CONT'D.**

6. Check potable water pipes on south wall by roll up door for vibration during use. **OK per JW 4/26/07 pipes are at 10'6" and are adequately supported.**
7. P-502 secondary containment sump pump failed second time, continued shakedown testing of this pump required. Or replace pump. **Neil advised the problem was corrected. Not witnessed 4/26/07 will ask Neil to show/prove on 4/27/07.** Pump P-502 works but there seems to be a problem with the check valves on the 2" line to the T-402 as sometimes there is flow and sometimes there is not flow when pump is put in hand mode. Pump would not work consistently again today 4/30/07. **Crew took apart discharge line within the sump and shortened the length of pipe to straighten out the flexible hose. Pump ran in hand and auto several times as demonstrated by ERM/J&H. Completed 5/1/07.**
8. Observation port (1.25 inch) identified on "Approved for Construction" Drawing C-10C, for all condensate sumps, was not installed and is required. It was needed to check water levels. **Completed 4/30/07.**

**Added to list 4/24/07:**

9. Lock out /tag out required for newly installed caustic fill line at T-901. **Completed 4/26/07.**
10. Brine tank leaks at hole located on side of tank closest to the floor. Ed Tung must be contacted by ERM. **Completed 4/30/07.**

**Added to list 4/25/07:**

11. Sample port tags at T-301/T-302 are in wrong positions. The correct identifications are written in marker pen on stainless steel valve near the tags. (SP-105, SP-106, SP-107 and SP-108). **Completed 4/26/07.**
12. T-601 auto-drain valve on bottom of tank (out of view) is leaking. **Completed 4/26/07.**
13. Valve adjacent to V-210 (on the line leading to holding tank for RC-201 on cooling tower pad) needs to be tagged out and labeled as "valve normally closed". **Completed 4/30/07.**
14. Discharge valve V-213 does not have tag. **Completed 4/30/07.**
15. Valves underneath the cooling tower need to be labeled/identified as "overflow /valve normally open" and "drain/ valve normally closed". **Completed 4/30/07.**
16. V-121 needs to open all the way it does not open all the way. It is currently locked in a partially open position. **Mark Williams took valve apart and showed MP that it seats fully. Completed 4/30/07.**
17. Label holding tank for RC-201. **Completed 4/27/07.**
18. Secure overhead water line known as "FTO Blowdown" at the 90 Deg. Ell above TIT-402 and PI-405. Thrust shakes pipe unacceptably. **Completed 4/27/07.**
19. Compressor maintenance to improve frequent low pressure alarm and error signal on compressor readout. J&H crew are already aware and have maintenance scheduled. Manufacturer's representative scheduled for Tuesday 5/1/07. Module was replaced

5/1/07. Compressor ran without alarms for rest of day 5/1/07.

**RAPID RESPONSE QUALITY CONTROL DAILY REPORT CONT'D.**

20. Seal all building penetrations (electrical and piping penetrations). **Completed 4/30/07.**

**For Fire Department Inspection:**

21. Install a NAOH fire placard on outside of building at entrance to all 4 doors. **Completed 5/4/07.**

**New to list 5/4/07**

1. Caustic line installed by ERM/ICS near northern rollup door is leaking at a 90 degree elbow onto the concrete floor and curb. **Completed 5/9/07.**
2. Water Filter installed by ERM/ICS is leaking at the base. **Completed 5/8/07.**
3. T-901 installed by ERM/ICS lid is missing. Needs to be replaced. **Completed 5/9/07**
4. Condensate sump VE-2 has an air/vacuum leak. Bolts are loose. There may be a leak in the inspection port recently installed by J&H. **Completed 5/3/07.**

**New to list 5/7/07**

5. The air diaphragm pump suction lines in condensate sumps DPE-D and DPE-A do not seem to be working correctly. **JW to assess during the week of 5/14/07.**

**New to list 5/16/07**

6. T-101 has leak on flange that faces west side of TC. **Repairs completed 5/17/07.**

Certification: I CERTIFY THAT THE ABOVE REPORT IS COMPLETE AND CORRECT AND THAT I, OR MY AUTHORIZED REPRESENTATIVE, HAVE INSPECTED ALL WORK PERFORMED THIS DAY BY THE PRIMARY CONTRACTOR AND EACH SUBCONTRACTOR AND HAVE DETERMINED THAT ALL MATERIALS, EQUIPMENT, AND WORKMANSHIP ARE IN STRICT COMPLIANCE WITH THE PLANS AND SPECIFICATIONS, EXCEPT AS NOTED ABOVE.

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Mark Prostko

Contractor's designated quality control representative

### RAPID RESPONSE QUALITY CONTROL DAILY REPORT

Contractor's Name: T N & Associates

Contract Number: **DACA45-00-D-0006**

Site Name & Location: Pemaco; Maywood, CA

#### INSTRUCTIONS

The contractor shall submit this form daily at the close of business to the on-site COE representative. Concurrently, the contractor shall provide electronic access to the completed forms to the COE district office and the area office.

Report #: 20070518

Delivery Order #:06

Date: 5-18-2007

Weather: Partly Sunny

Temp. (max & min): 60- 73

Rainfall (in): .00

1. Work performed today by primary contractor on site and/or off site:

- 1) Dave Allen (TN&A) on site ~0730 hours. Security was onsite. Jacob & Hefner already on site and held their own tailgate meeting. MP on site at 1045 hours. Tailgate safety meeting with employees was hearing protection mandate inside the TC. Also MP inspected the TC for signage concerning "Hearing Protection Required". There are two signs posted inside the TC.
- 2) 0730 hrs to ~1735 hours Dave Allen was sampling wells with Mark Wanek (TN&A). Mark Wanek left site at 1300 hours. Today was last day of SUMMA canister sampling (baseline).
- 3) 1100 MP meeting with Mark Williams and Neil Coy to get an update of system operations and review any problems. Mark Williams indicated that the GW system ran overnight again without incidents.
- 4) 1145 hrs FQI-501 00005816 gallons.
- 5) 1145 hrs FQI0402 949055 gallons.
- 6) 1215 hrs Edwin (EarthTech) on site.
- 7) 1330 hrs MP checked TC systems. All VE and DPE manifold lines are open and at ~17" Hg.
- 8) MP/Edwin checked hardness of water at water line fill line to cooling tower. No hardness detected. Edwin checked city water source (pre TC treatment) and total hardness was 140 ppm prior to the TC water softeners.
- 9) 1430 hrs Mark Williams left site.
- 10) 1430 hrs MP spoke with Mike Ebner about flow rate recorded in FTO line. Mike Ebner making corrections to formula in PLC programming to sync the flow rate with data presented on computer screen data.
- 11) 1530 hrs MP inspected TC operations.
- 12) 1630 hrs MP inspected TC operations.
- 13) 1830 MP inspected TC operations. Inventoried used bag filters (8 x 30 gallon garbage bags full). Two (2) 55 gallon drums of carbon scraped from the top of T-403 are inside the TC. These will be removed when carbon is scheduled for the first change out.
- 14) 1430 hours to 1900 hours MP assumed operations of FTO and GW systems. Systems (GW and FTO) running well and MP is locking down TC for the night. All systems running.
- 15) 1945 hrs MP inspected air compressor manifold to the wellfield and noticed that the regulators for GW2 and GW3 were not opened. Called JW.
- 16) 2000 hrs MP left site.

**RAPID RESPONSE QUALITY CONTROL DAILY REPORT CONT'D.**

- 17) Dust monitoring not performed today. The monitoring schedule includes 2 units placed at the following locations: 1) Upgradient - north side of ERH area, and 2) Downgradient - Northwest corner of Pemaco office trailer. A time-weighted average (TWA) of dust concentrations as well as maximum concentration (max.) recorded by each unit are indicated below:

Area (Unit #)	Daily	
	TWA (mg/m3 )	Max (mg/m3 )
Downgradient (1135)	NA	NA
Upgradient (1010)	NA	NA

2. Work performed by subcontractors on site and/or off site (include a complete description):

Subcontractors:

**EarthTech (Subcontractor)**

**12:30 PM ~ 4:30 PM**

**(1 Technician)**

1. Working with MP operating the FTO and GW systems. Helped MP with inspection of carbon filter T-403. Opened up filter and removed several inches of silted carbon from the top of the filter pack. Reset the lid and started system.

**Work performed today by ERM and subcontractors on site and/or off site:**

Jacob and Hefner provided two-man crew (Mark Williams and Thaddeus Carrol and operated the FTO and GW treatment systems/exposition wells with the exception of DA-4, DB-4 and DA-7.

(Day 20)

**Note: Summary of Jacob & Hefner's daily log will be included as an attachment to this report beginning with today's report. Hours are as detailed on the Jacob & Hefner report attached.**

3. Complete and attach the daily personnel cost report at the end of this document and label as Appendix 1.

**[PROVIDED IN SEPARATE BINDER]**

4. On-site conditions which resulted in delayed progress:  
None

5. Type and results of inspections (indicate whether: P-Preparatory, I-Initial, or F-Final and include satisfactory work completed or deficiencies with action to be taken):

**Deficiencies** (Ongoing list and newly identified)

**Work Check List**

**Observed During April 10, 2007 PLC Acceptance Check**

Revised 5/16/07 1500 hours

**RAPID RESPONSE QUALITY CONTROL DAILY REPORT CONT'D.**

1. Pipe Supports needed: Discharge from condensate pumps. **Completed 4/27/07.**
2. Program HMI screen to match colors of P&ID Drawings. (Previously requested.) **Mike Ebner working on 4/26/07 and 4/27/07. JW approved Monday 4/30/07.**
3. H-201 leaks in bottom gasket. See drip marks on frame as evidence. **Neil advised he corrected 4/26/07.**
4. Tag needed on H-202 valves ("Hot"). **"HOT" painted on side of H-202 4/26/07.**
5. DPIT/FE-101 is not reporting correctly on HMI screen. The pitot does not appear to be installed according to Dwyer Instruments recommendations and should be re-installed. (Currently installed in a tee) **Relocated by J&H 4/26/07.**
6. Check potable water pipes on south wall by roll up door for vibration during use. **OK per JW 4/26/07 pipes are at 10'6" and are adequately supported.**
7. P-502 secondary containment sump pump failed second time, continued shakedown testing of this pump required. Or replace pump. **Neil advised the problem was corrected. Not witnessed 4/26/07 will ask Neil to show/prove on 4/27/07.** Pump P-502 works but there seems to be a problem with the check valves on the 2" line to the T-402 as sometimes there is flow and sometimes there is not flow when pump is put in hand mode. Pump would not work consistently again today 4/30/07. **Crew took apart discharge line within the sump and shortened the length of pipe to straighten out the flexible hose. Pump ran in hand and auto several times as demonstrated by ERM/J&H. Completed 5/1/07.**
8. Observation port (1.25 inch) identified on "Approved for Construction" Drawing C-10C, for all condensate sumps, was not installed and is required. It was needed to check water levels. **Completed 4/30/07.**

**Added to list 4/24/07:**

9. Lock out /tag out required for newly installed caustic fill line at T-901. **Completed 4/26/07.**
10. Brine tank leaks at hole located on side of tank closest to the floor. Ed Tung must be contacted by ERM. **Completed 4/30/07.**

**Added to list 4/25/07:**

11. Sample port tags at T-301/T-302 are in wrong positions. The correct identifications are written in marker pen on stainless steel valve near the tags. (SP-105, SP-106, SP-107 and SP-108). **Completed 4/26/07.**
12. T-601 auto-drain valve on bottom of tank (out of view) is leaking. **Completed 4/26/07.**
13. Valve adjacent to V-210 (on the line leading to holding tank for RC-201 on cooling tower pad) needs to be tagged out and labeled as "valve normally closed". **Completed 4/30/07.**
14. Discharge valve V-213 does not have tag. **Completed 4/30/07.**
15. Valves underneath the cooling tower need to be labeled/identified as "overflow /valve normally open" and "drain/ valve normally closed". **Completed 4/30/07.**

**RAPID RESPONSE QUALITY CONTROL DAILY REPORT CONT'D.**

16.V-121 needs to open all the way it does not open all the way. It is currently locked in a partially open position. **Mark Williams took valve apart and showed MP that it seats fully. Completed 4/30/07.**

17.Label holding tank for RC-201. **Completed 4/27/07.**

18. Secure overhead water line known as "FTO Blowdown" at the 90 Deg. Ell above TIT-402 and PI-405. Thrust shakes pipe unacceptably. **Completed 4/27/07.**

19.Compressor maintenance to improve frequent low pressure alarm and error signal on compressor readout. J&H crew are already aware and have maintenance scheduled. Manufacturer's representative scheduled for Tuesday 5/1/07. Module was replaced 5/1/07. **Compressor ran without alarms for rest of day 5/1/07.**

20. Seal all building penetrations (electrical and piping penetrations). **Completed 4/30/07.**

**For Fire Department Inspection:**

21.Install a NAOH fire placard on outside of building at entrance to all 4 doors. **Completed 5/4/07.**

**New to list 5/4/07**

1. Caustic line installed by ERM/ICS near northern rollup door is leaking at a 90 degree elbow onto the concrete floor and curb. **Completed 5/9/07.**
2. Water Filter installed by ERM/ICS is leaking at the base. **Completed 5/8/07.**
3. T-901 installed by ERM/ICS lid is missing. Needs to be replaced. **Completed 5/9/07**
4. Condensate sump VE-2 has an air/vacuum leak. Bolts are loose. There may be a leak in the inspection port recently installed by J&H. **Completed 5/3/07.**

**New to list 5/16/07**

5. T-101 has leak on flange that faces west side of TC. **Repairs completed 5/17/07.**

Certification: I CERTIFY THAT THE ABOVE REPORT IS COMPLETE AND CORRECT AND THAT I, OR MY AUTHORIZED REPRESENTATIVE, HAVE INSPECTED ALL WORK PERFORMED THIS DAY BY THE PRIMARY CONTRACTOR AND EACH SUBCONTRACTOR AND HAVE DETERMINED THAT ALL MATERIALS, EQUIPMENT, AND WORKMANSHIP ARE IN STRICT COMPLIANCE WITH THE PLANS AND SPECIFICATIONS, EXCEPT AS NOTED ABOVE.

\_\_\_\_\_  
Mark Prostko

Contractor's designated quality control representative

### RAPID RESPONSE QUALITY CONTROL DAILY REPORT

Contractor's Name: T N & Associates

Contract Number: **DACA45-00-D-0006**

Site Name & Location: Pemaco; Maywood, CA

#### INSTRUCTIONS

The contractor shall submit this form daily at the close of business to the on-site COE representative. Concurrently, the contractor shall provide electronic access to the completed forms to the COE district office and the area office.

Report #: 20070521

Delivery Order #:06

Date: 5-21-2007

Weather: Mostly Cloudy

Temp. (max & min): 60- 65

Rainfall (in): .00

1. Work performed today by primary contractor on site and/or off site:

- 1) Dave Allen (TN&A) on site ~0700 hours. Security was onsite. Jacob & Hefner already on site and held their own tailgate meeting. JW on site at 0700 hours. Tailgate safety meeting with employees was held by Jacob and Hefner in AM.
- 2) 0730 hrs to ~1730 hours Dave Allen was sampling wells.
- 3) 0800 JW meeting with Mark Williams and Neil Coy to get an update of system operations and review any problems.
- 4) Mark Williams ran FTO and GW systems, changed bag filters at F-401/F-402 three times (25/10 micron) and F-403/F-404 were changed once (5/1 micron). All eight (8) manifold lines were operated.
- 5) Turned on all wells previously turned off and operated at lower vacuum (15" Hg) to see if water continues to clear.
- 6) Turned regulator for GW-1 down to 50 psi to reduce pumping rate on that line. GW-2 and GW-3 lines were set at 100 psi.
- 7) 1430 hrs Mark Williams left site.
- 8) 1430 hours to 1545 hours JW and Hector Cervantes assumed operations of FTO and GW systems. Systems (GW and FTO) running and JW is locking down TC for the night. All systems running.
- 9) Hector Cervantes on site until 1600 hrs.
- 10) At 1800 hrs alarm for VFD failure P-402 shut down both FTO and GW systems.
- 11) Dust monitoring not performed today. The monitoring schedule includes 2 units placed at the following locations: 1) Upgradient - north side of ERH area, and 2) Downgradient - Northwest corner of Pemaco office trailer. A time-weighted average (TWA) of dust concentrations as well as maximum concentration (max.) recorded by each unit are indicated below:

Area (Unit #)	Daily	
	<u>TWA (mg/m3)</u>	<u>Max (mg/m3)</u>
Downgradient (1135)	NA	NA
Upgradient (1010)	NA	NA

2. Work performed by subcontractors on site and/or off site (include a complete description):

Subcontractors:

**RAPID RESPONSE QUALITY CONTROL DAILY REPORT CONT'D.**

**Work performed today by ERM and subcontractors on site and/or off site:**

Jacob and Hefner provided two-man crew (Mark Williams and Thaddeus Carrol and operated the FTO and GW treatment systems/exposition wells with the exception of DA-4, DB-4 and DA-7.

(Day 21)

**Note: Summary of Jacob & Hefner's daily log will be included as an attachment to this report beginning with today's report. Hours are as detailed on the Jacob & Hefner report attached.**

3. Complete and attach the daily personnel cost report at the end of this document and label as Appendix 1.

**[PROVIDED IN SEPARATE BINDER]**

4. On-site conditions which resulted in delayed progress:  
None

5. Type and results of inspections (indicate whether: P-Preparatory, I-Initial, or F-Final and include satisfactory work completed or deficiencies with action to be taken):

**Deficiencies** (Ongoing list and newly identified)

**Work Check List**

**Observed During April 10, 2007 PLC Acceptance Check**

Revised 5/16/07 1500 hours

1. Pipe Supports needed: Discharge from condensate pumps. **Completed 4/27/07.**
2. Program HMI screen to match colors of P&ID Drawings. (Previously requested.) **Mike Ebner working on 4/26/07 and 4/27/07. JW approved Monday 4/30/07.**
3. H-201 leaks in bottom gasket. See drip marks on frame as evidence. **Neil advised he corrected 4/26/07.**
4. Tag needed on H-202 valves ("Hot"). **"HOT" painted on side of H-202 4/26/07.**
5. DPIT/FE-101 is not reporting correctly on HMI screen. The pitot does not appear to be installed according to Dwyer Instruments recommendations and should be re-installed. (Currently installed in a tee) **Relocated by J&H 4/26/07.**
6. Check potable water pipes on south wall by roll up door for vibration during use. **OK per JW 4/26/07 pipes are at 10'6" and are adequately supported.**
7. P-502 secondary containment sump pump failed second time, continued shakedown testing of this pump required. Or replace pump. **Neil advised the problem was corrected. Not witnessed 4/26/07 will ask Neil to show/prove on 4/27/07.** Pump P-502 works but there seems to be a problem with the check valves on the 2" line to the T-402 as sometimes there is flow and sometimes there is not flow when pump is put in hand mode. Pump would not work consistently again today 4/30/07. **Crew took apart discharge line within the sump and shortened the length of pipe to straighten out the flexible hose. Pump ran in hand and auto several times as demonstrated by ERM/J&H. Completed 5/1/07.**

**RAPID RESPONSE QUALITY CONTROL DAILY REPORT CONT'D.**

8. Observation port (1.25 inch) identified on "Approved for Construction" Drawing C-10C, for all condensate sumps, was not installed and is required. It was needed to check water levels. **Completed 4/30/07.**

**Added to list 4/24/07:**

9. Lock out /tag out required for newly installed caustic fill line at T-901. **Completed 4/26/07.**
10. Brine tank leaks at hole located on side of tank closest to the floor. Ed Tung must be contacted by ERM. **Completed 4/30/07.**

**Added to list 4/25/07:**

11. Sample port tags at T-301/T-302 are in wrong positions. The correct identifications are written in marker pen on stainless steel valve near the tags. (SP-105, SP-106, SP-107 and SP-108). **Completed 4/26/07.**
12. T-601 auto-drain valve on bottom of tank (out of view) is leaking. **Completed 4/26/07.**
13. Valve adjacent to V-210 (on the line leading to holding tank for RC-201 on cooling tower pad) needs to be tagged out and labeled as "valve normally closed". **Completed 4/30/07.**
14. Discharge valve V-213 does not have tag. **Completed 4/30/07.**
15. Valves underneath the cooling tower need to be labeled/identified as "overflow /valve normally open" and "drain/ valve normally closed". **Completed 4/30/07.**
16. V-121 needs to open all the way it does not open all the way. It is currently locked in a partially open position. **Mark Williams took valve apart and showed MP that it seats fully. Completed 4/30/07.**
17. Label holding tank for RC-201. **Completed 4/27/07.**
18. Secure overhead water line known as "FTO Blowdown" at the 90 Deg. Ell above TIT-402 and PI-405. Thrust shakes pipe unacceptably. **Completed 4/27/07.**
19. Compressor maintenance to improve frequent low pressure alarm and error signal on compressor readout. J&H crew are already aware and have maintenance scheduled. Manufacturer's representative scheduled for Tuesday 5/1/07. Module was replaced 5/1/07. **Compressor ran without alarms for rest of day 5/1/07.**
20. Seal all building penetrations (electrical and piping penetrations). **Completed 4/30/07.**

**For Fire Department Inspection:**

21. Install a NAOH fire placard on outside of building at entrance to all 4 doors. **Completed 5/4/07.**

**New to list 5/4/07**

1. Caustic line installed by ERM/ICS near northern rollup door is leaking at a 90 degree elbow onto the concrete floor and curb. **Completed 5/9/07.**
2. Water Filter installed by ERM/ICS is leaking at the base. **Completed 5/8/07.**
3. T-901 installed by ERM/ICS lid is missing. Needs to be replaced. **Completed 5/9/07**

**RAPID RESPONSE QUALITY CONTROL DAILY REPORT CONT'D.**

4. Condensate sump VE-2 has an air/vacuum leak. Bolts are loose. There may be a leak in the inspection port recently installed by J&H. **Completed 5/3/07.**

**New to list 5/16/07**

5. T-101 has leak on flange that faces west side of TC. **Repairs completed 5/17/07.**

Certification: I CERTIFY THAT THE ABOVE REPORT IS COMPLETE AND CORRECT AND THAT I, OR MY AUTHORIZED REPRESENTATIVE, HAVE INSPECTED ALL WORK PERFORMED THIS DAY BY THE PRIMARY CONTRACTOR AND EACH SUBCONTRACTOR AND HAVE DETERMINED THAT ALL MATERIALS, EQUIPMENT, AND WORKMANSHIP ARE IN STRICT COMPLIANCE WITH THE PLANS AND SPECIFICATIONS, EXCEPT AS NOTED ABOVE.

Mark Prostko

Contractor's designated quality control representative

# **RAPID RESPONSE QUALITY CONTROL DAILY REPORT**

Contractor's Name: T N & Associates

Contract Number: **DACA45-00-D-0006**

Site Name & Location: Pemaco; Maywood, CA

## **INSTRUCTIONS**

The contractor shall submit this form daily at the close of business to the on-site COE representative. Concurrently, the contractor shall provide electronic access to the completed forms to the COE district office and the area office.

Report #: 20070522

Delivery Order #:06

Date: 5-22-2007

Weather: Mostly Cloudy

Temp. (max & min): 60- 73

Rainfall (in): .00

### 1. Work performed today by primary contractor on site and/or off site:

- 1) John Wingate (TN&A) on site ~0700 hours. Security was onsite. Jacob & Hefner already on site and held their own tailgate meeting. Dave Allen on site at 0730 hours. Tailgate safety meeting with employees was reminder about PPE inside the TC (Nitrile gloves, Hard Hats and Safety Glasses).
- 2) 0730 hrs to ~1930 hours Dave Allen was sampling wells.
- 3) 0730 JW meeting with Mark Williams and Neil Coy to get an update of system operations and review any problems.
- 4) 0820 hrs Danny Chen on site.
- 5) 1030 hrs JW met with Pure Effect (carbon vendor representative) at the site to get proposal for carbon replacement for adsorbers T-403 and T-404.
- 6) 1045 hrs MP on site. Met with JW to go over system operations.
- 7) 1100 hrs Hector Cervantes on site.
- 8) 1130 hrs SCE on site to shut down electric. MP contacted Rosie Caraway and JW contacted SCE to arrange for conference call to straighten out billing questions that SCE has.
- 9) 1230 hrs to ~1400 hrs Rick Lainhart (USACE) on site for system operations update.
- 10) 1245 hrs MP met with Manuel from Maywood Water Company. Water Company will repair the broken plastic meter vault near ERH area. Water company will install steel well vault at water meter near TC using vault supplied by TN&A. This work will be scheduled in future.
- 11) 1400 hrs Mark Williams met with MP to go over system operations and parameters. Today manifold is open for DPE-A, DPE-B, DPE-C and DPE-D only at 20" to 22" Hg. GW- 1 is set at 50 psi, GW-2 is set at 100 psi and GW-3 is set at 100 psi.
- 12) 1430 hrs Mark Williams left site.
- 13) 1430 hours to 1930 hours MP and Hector Cervantes assumed operations of FTO and GW systems. Systems (GW and FTO) running and MP is locking down TC for the night.
- 14) 1500 hrs high chamber temp FTO alarm. FTO shut down. FTO restarted by Edwin and MP. FTO running again by 1600 hrs.
- 15) 1600 hrs FQI-501 was 00017794 gallons.
- 16) 1605 hrs FQI-402 was 1,048,110 gallons.
- 17) 1730 FTO shut down high chamber temperature alarm. Restarted system. System ran fine at 17" and 18" Hg. When vacuum was applied at 20" Hg high temperature alarm shut down FTO again at 1820 hrs. Restarted FTO again at 1820 to 1900 hours.

**RAPID RESPONSE QUALITY CONTROL DAILY REPORT CONT'D.**

- 18) All systems running when MP left the site at 1930 hrs.
- 19) Dust monitoring not performed today. The monitoring schedule includes 2 units placed at the following locations: 1) Upgradient - north side of ERH area, and 2) Downgradient - Northwest corner of Pemaco office trailer. A time-weighted average (TWA) of dust concentrations as well as maximum concentration (max.) recorded by each unit are indicated below:

Area (Unit #)	Daily	
	TWA (mg/m3 )	Max (mg/m3 )
Downgradient (1135)	NA	NA
Upgradient (1010)	NA	NA

2. Work performed by subcontractors on site and/or off site (include a complete description):

Subcontractors:

**Clevenger Construction, Inc.(General subcontractor)**

**11:00 AM ~ 2:30 PM (1/2 hour lunch)**

**(1 Superintendent two (2) field technicians)**

**Equipment: F-350, Hand tools, rolls of poly sheeting, 50 sand bags(No equipment was used today)**

1. Crew worked on knocking down the soil stockpile adjacent to Walker Street and installed poly sheeting to cover the end that was exposed when soil was used for grading two weeks ago.
2. Crew brought the steel vault stored in ERH area to the area next to the Maywood Water Company meter vault located near TC building.
3. Crew placed 50 sand bags around the perimeter of vault for **PA-1**.

**EarthTech (Subcontractor)**

**12:00 PM ~ 7:30 PM**

**(1 Technician)**

1. Working with MP operating the FTO and GW systems. Helped DC with inspection of stingers in perched zone wells. Started FTO up in PM when system shut down on high temperature alarms.

**Work performed today by ERM and subcontractors on site and/or off site:**

Jacob and Hefner provided one man crew (Mark Williams) and operated the FTO and GW treatment systems/exposition wells with the exception of wells DA-4, DB-4. **Last day on site for ERM and J&H.**

(Day 22)

**Note: Summary of Jacob & Hefner's daily log will be included as an attachment to this report beginning with today's report. Hours are as detailed on the Jacob & Hefner report attached.**

3. Complete and attach the daily personnel cost report at the end of this document and label as Appendix 1.

**[PROVIDED IN SEPARATE BINDER]**

4. On-site conditions which resulted in delayed progress:  
None

**RAPID RESPONSE QUALITY CONTROL DAILY REPORT CONT'D.**

5. Type and results of inspections (indicate whether: P-Preparatory, I-Initial, or F-Final and include satisfactory work completed or deficiencies with action to be taken):

**Deficiencies** (Ongoing list and newly identified)

**Work Check List**

**Observed During April 10, 2007 PLC Acceptance Check**

Revised 5/22/07 1500 hours

1. Pipe Supports needed: Discharge from condensate pumps. **Completed 4/27/07.**
2. Program HMI screen to match colors of P&ID Drawings. (Previously requested.) **Mike Ebner working on 4/26/07 and 4/27/07. JW approved Monday 4/30/07.**
3. H-201 leaks in bottom gasket. See drip marks on frame as evidence. **Neil advised he corrected 4/26/07.**
4. Tag needed on H-202 valves ("Hot"). **"HOT" painted on side of H-202 4/26/07.**
5. DPIT/FE-101 is not reporting correctly on HMI screen. The pitot does not appear to be installed according to Dwyer Instruments recommendations and should be re-installed. (Currently installed in a tee) **Relocated by J&H 4/26/07.**
6. Check potable water pipes on south wall by roll up door for vibration during use. **OK per JW 4/26/07 pipes are at 10'6" and are adequately supported.**
7. P-502 secondary containment sump pump failed second time, continued shakedown testing of this pump required. Or replace pump. **Neil advised the problem was corrected. Not witnessed 4/26/07 will ask Neil to show/prove on 4/27/07.** Pump P-502 works but there seems to be a problem with the check valves on the 2" line to the T-402 as sometimes there is flow and sometimes there is not flow when pump is put in hand mode. Pump would not work consistently again today 4/30/07. **Crew took apart discharge line within the sump and shortened the length of pipe to straighten out the flexible hose. Pump ran in hand and auto several times as demonstrated by ERM/J&H. Completed 5/1/07.**
8. Observation port (1.25 inch) identified on "Approved for Construction" Drawing C-10C, for all condensate sumps, was not installed and is required. It was needed to check water levels. **Completed 4/30/07.**

**Added to list 4/24/07:**

9. Lock out /tag out required for newly installed caustic fill line at T-901. **Completed 4/26/07.**
10. Brine tank leaks at hole located on side of tank closest to the floor. Ed Tung must be contacted by ERM. **Completed 4/30/07.**

**Added to list 4/25/07:**

11. Sample port tags at T-301/T-302 are in wrong positions. The correct identifications are written in marker pen on stainless steel valve near the tags. (SP-105, SP-106, SP-107 and SP-108). **Completed 4/26/07.**

**RAPID RESPONSE QUALITY CONTROL DAILY REPORT CONT'D.**

- 12.T-601 auto-drain valve on bottom of tank (out of view) is leaking. **Completed 4/26/07.**
- 13.Valve adjacent to V-210 (on the line leading to holding tank for RC-201 on cooling tower pad) needs to be tagged out and labeled as "valve normally closed". **Completed 4/30/07.**
- 14.Discharge valve V-213 does not have tag. **Completed 4/30/07.**
- 15.Valves underneath the cooling tower need to be labeled/identified as "overflow /valve normally open" and "drain/ valve normally closed". **Completed 4/30/07.**
- 16.V-121 needs to open all the way it does not open all the way. It is currently locked in a partially open position. **Mark Williams took valve apart and showed MP that it seats fully. Completed 4/30/07.**
- 17.Label holding tank for RC-201. **Completed 4/27/07.**
18. Secure overhead water line known as "FTO Blowdown" at the 90 Deg. Ell above TIT-402 and PI-405. Thrust shakes pipe unacceptably. **Completed 4/27/07.**
- 19.Compressor maintenance to improve frequent low pressure alarm and error signal on compressor readout. J&H crew are already aware and have maintenance scheduled. Manufacturer's representative scheduled for Tuesday 5/1/07. Module was replaced 5/1/07. **Compressor ran without alarms for rest of day 5/1/07.**
20. Seal all building penetrations (electrical and piping penetrations). **Completed 4/30/07.**

**For Fire Department Inspection:**

- 21.Install a NAOH fire placard on outside of building at entrance to all 4 doors. **Completed 5/4/07.**

**New to list 5/4/07**

1. Caustic line installed by ERM/ICS near northern rollup door is leaking at a 90 degree elbow onto the concrete floor and curb. **Completed 5/9/07.**
2. Water Filter installed by ERM/ICS is leaking at the base. **Completed 5/8/07.**
3. T-901 installed by ERM/ICS lid is missing. Needs to be replaced. **Completed 5/9/07**
4. Condensate sump VE-2 has an air/vacuum leak. Bolts are loose. There may be a leak in the inspection port recently installed by J&H. **Completed 5/3/07.**

**New to list 5/16/07**

5. T-101 has leak on flange that faces west side of TC. **Repairs completed 5/17/07.**

Certification: I CERTIFY THAT THE ABOVE REPORT IS COMPLETE AND CORRECT AND THAT I, OR MY AUTHORIZED REPRESENTATIVE, HAVE INSPECTED ALL WORK PERFORMED THIS DAY BY THE PRIMARY CONTRACTOR AND EACH SUBCONTRACTOR AND HAVE DETERMINED THAT ALL MATERIALS, EQUIPMENT, AND WORKMANSHIP ARE IN STRICT COMPLIANCE WITH THE PLANS AND SPECIFICATIONS, EXCEPT AS NOTED ABOVE.

\_\_\_\_\_  
Mark Prostko

Contractor's designated quality control representative

## RAPID RESPONSE QUALITY CONTROL DAILY REPORT

Contractor's Name: T N & Associates

Contract Number: **DACA45-00-D-0006**

Site Name & Location: Pemaco; Maywood, CA

### INSTRUCTIONS

The contractor shall submit this form daily at the close of business to the on-site COE representative. Concurrently, the contractor shall provide electronic access to the completed forms to the COE district office and the area office.

Report #: 20070523

Delivery Order #:06

Date: 5-23-2007

Weather: Mostly Sunny

Temp. (max & min): 60- 74

Rainfall (in): .00

1. Work performed today by primary contractor on site and/or off site:

- 1) Edwin (EarthTech) on site ~0650 hours. MP on site at 0700 hrs. Security was onsite. Dave Allen on site at 0730 hours. Tailgate safety meeting with employees was reminder about hearing protection in TC area. FTO shut down after hours last night on several alarms (T-403 holding tank high outlet pressure, Low Inlet pressure FTO, P-402 VFD failure and E-Stop at MCP.
- 2) 0730 hrs to ~1730 hours Dave Allen was sampling wells.
- 3) 0730 to 0830 hrs MP and Edwin going through start up procedures for FTO unit. Prior to reaching operational temperature and flow rate steady state Edwin noticed a flame inside the burner on the ceramic core. Decided to shut down FTO and contacted Bob Lien (Anguil) and Dave Bartz (Alzeta) about this symptom.
- 4) 0730 to 0830 hrs MP and Edwin replaced the bag filters at F-403/F-404 (2 x 5/1 HEBF) and at F-401/F-402 (5 x 25/10 HEBF).
- 5) 0815 hrs MP met with Manuel from Maywood Water Company. Water Company will replace the broken plastic meter vault near ERH area with a concrete vault. Water Company removed the plastic vault for the meter located near TC Building. TN&A will install a steel vault at this location, which was acceptable to Manuel at Maywood Water Company #3.
- 6) 0830 hrs to 1200 hrs Edwin inspecting all exposition wells to record cycle counters and air compressor pressures. Also opening the valves on the sample ports to exhaust wells since FTO system is not operational and pumps are exhausting pressurized air into the sealed wells.
- 7) 1100 hrs Hector Cervantes on site.
- 8) 1115 to 1400 hrs Geoff Brink loading up the temporary GAC treatment skid that was used for EISB study and is taking the unit offsite.
- 9) 1230 hrs Brian from EarthTech on site. Brian met with MP and Edwin and went over FTO operational history of past few days on PLC.
- 10) 1300 hrs MP ordered an additional 25 x 5/1 HEBFs for future usage for F-403/F-404.
- 11) 1330 Dave Bartz confirmed that himself and an Alzeta technician will be on site Thursday morning. Dave requested a fork lift. MP ordered a small forklift for Thursday 5/24/07. The crew will inspect the ceramic burner elements and will be prepared to remove/replace if decided.
- 12) 1420 hrs Edwin, Brian and MP going through the startup procedures for FTO. Turning on FTO at FTO panel.

**RAPID RESPONSE QUALITY CONTROL DAILY REPORT CONT'D.**

- 13) 1500 to 1800 hrs Edwin installing 1/4" drain plugs on FTO inlet 8" CPVC line several feet before the automated valves on the FTO inlet.
- 14) 1600 to 1650 MP collecting water sampled for John Wingate at SP-204, SP-208, SP-213, SP-214 and SP-215. Delivered samples to FedEx in Vernon at ~1700 hrs.
- 15) Dust monitoring not performed today. The monitoring schedule includes 2 units placed at the following locations: 1) Upgradient - north side of ERH area, and 2) Downgradient - Northwest corner of Pemaco office trailer. A time-weighted average (TWA) of dust concentrations as well as maximum concentration (max.) recorded by each unit are indicated below:

Area (Unit #)	Daily	
	<u>TWA(mg/m3)</u>	<u>Max(mg/m3)</u>
Downgradient (1135)	NA	NA
Upgradient (1010)	NA	NA

2. Work performed by subcontractors on site and/or off site (include a complete description):

Subcontractors:

**EarthTech (Subcontractor)**

**6:50 AM ~ 18:00 PM**

**(1 Technician)**

1. Working with MP operating the FTO and GW systems. Began an inspection of all exposition well vaults and continued with inspection of stingers in perched zone wells. Worked with MP and Brian (EarthTech) on inspection of FTO unit after system keeps shutting down on high chamber temperature and low inlet pressure alarms.

3. Complete and attach the daily personnel cost report at the end of this document and label as Appendix 1.

**[PROVIDED IN SEPARATE BINDER]**

4. On-site conditions which resulted in delayed progress:  
None

5. Type and results of inspections (indicate whether: P-Preparatory, I-Initial, or F-Final and include satisfactory work completed or deficiencies with action to be taken):

**Deficiencies** (Ongoing list and newly identified)

**Work Check List**

**Observed During April 10, 2007 PLC Acceptance Check**

Revised 5/23/07 1500 hours

1. Pipe Supports needed: Discharge from condensate pumps. **Completed 4/27/07.**
2. Program HMI screen to match colors of P&ID Drawings. (Previously requested.)  
**Mike Ebner working on 4/26/07 and 4/27/07. JW approved Monday 4/30/07.**

**RAPID RESPONSE QUALITY CONTROL DAILY REPORT CONT'D.**

3. H-201 leaks in bottom gasket. See drip marks on frame as evidence. **Neil advised he corrected 4/26/07.**
4. Tag needed on H-202 valves ("Hot"). **"HOT" painted on side of H-202 4/26/07.**
5. DPIT/FE-101 is not reporting correctly on HMI screen. The pitot does not appear to be installed according to Dwyer Instruments recommendations and should be re-installed. (Currently installed in a tee) **Relocated by J&H 4/26/07.**
6. Check potable water pipes on south wall by roll up door for vibration during use. **OK per JW 4/26/07 pipes are at 10'6" and are adequately supported.**
7. P-502 secondary containment sump pump failed second time, continued shakedown testing of this pump required. Or replace pump. **Neil advised the problem was corrected. Not witnessed 4/26/07 will ask Neil to show/prove on 4/27/07.** Pump P-502 works but there seems to be a problem with the check valves on the 2" line to the T-402 as sometimes there is flow and sometimes there is not flow when pump is put in hand mode. Pump would not work consistently again today 4/30/07. **Crew took apart discharge line within the sump and shortened the length of pipe to straighten out the flexible hose. Pump ran in hand and auto several times as demonstrated by ERM/J&H. Completed 5/1/07.**
8. Observation port (1.25 inch) identified on "Approved for Construction" Drawing C-10C, for all condensate sumps, was not installed and is required. It was needed to check water levels. **Completed 4/30/07.**

**Added to list 4/24/07:**

9. Lock out /tag out required for newly installed caustic fill line at T-901. **Completed 4/26/07.**
10. Brine tank leaks at hole located on side of tank closest to the floor. Ed Tung must be contacted by ERM. **Completed 4/30/07.**

**Added to list 4/25/07:**

11. Sample port tags at T-301/T-302 are in wrong positions. The correct identifications are written in marker pen on stainless steel valve near the tags. (SP-105, SP-106, SP-107 and SP-108). **Completed 4/26/07.**
12. T-601 auto-drain valve on bottom of tank (out of view) is leaking. **Completed 4/26/07.**
13. Valve adjacent to V-210 (on the line leading to holding tank for RC-201 on cooling tower pad) needs to be tagged out and labeled as "valve normally closed". **Completed 4/30/07.**
14. Discharge valve V-213 does not have tag. **Completed 4/30/07.**
15. Valves underneath the cooling tower need to be labeled/identified as "overflow /valve normally open" and "drain/ valve normally closed". **Completed 4/30/07.**
16. V-121 needs to open all the way it does not open all the way. It is currently locked in a partially open position. **Mark Williams took valve apart and showed MP that it seats fully. Completed 4/30/07.**

**RAPID RESPONSE QUALITY CONTROL DAILY REPORT CONT'D.**

17. Label holding tank for RC-201. **Completed 4/27/07.**

18. Secure overhead water line known as "FTO Blowdown" at the 90 Deg. Ell above TIT-402 and PI-405. Thrust shakes pipe unacceptably. **Completed 4/27/07.**

19. Compressor maintenance to improve frequent low pressure alarm and error signal on compressor readout. J&H crew are already aware and have maintenance scheduled. Manufacturer's representative scheduled for Tuesday 5/1/07. Module was replaced 5/1/07. **Compressor ran without alarms for rest of day 5/1/07.**

20. Seal all building penetrations (electrical and piping penetrations). **Completed 4/30/07.**

**For Fire Department Inspection:**

21. Install a NAOH fire placard on outside of building at entrance to all 4 doors. **Completed 5/4/07.**

**New to list 5/4/07**

1. Caustic line installed by ERM/ICS near northern rollup door is leaking at a 90 degree elbow onto the concrete floor and curb. **Completed 5/9/07.**

2. Water Filter installed by ERM/ICS is leaking at the base. **Completed 5/8/07.**

3. T-901 installed by ERM/ICS lid is missing. Needs to be replaced. **Completed 5/9/07**

4. Condensate sump VE-2 has an air/vacuum leak. Bolts are loose. There may be a leak in the inspection port recently installed by J&H. **Completed 5/3/07.**

**New to list 5/16/07**

5. T-101 has leak on flange that faces west side of TC. **Repairs completed 5/17/07.**

Certification: I CERTIFY THAT THE ABOVE REPORT IS COMPLETE AND CORRECT AND THAT I, OR MY AUTHORIZED REPRESENTATIVE, HAVE INSPECTED ALL WORK PERFORMED THIS DAY BY THE PRIMARY CONTRACTOR AND EACH SUBCONTRACTOR AND HAVE DETERMINED THAT ALL MATERIALS, EQUIPMENT, AND WORKMANSHIP ARE IN STRICT COMPLIANCE WITH THE PLANS AND SPECIFICATIONS, EXCEPT AS NOTED ABOVE.

\_\_\_\_\_  
Mark Prostko

Contractor's designated quality control representative

### RAPID RESPONSE QUALITY CONTROL DAILY REPORT

Contractor's Name: T N & Associates

Contract Number: **DACA45-00-D-0006**

Site Name & Location: Pemaco; Maywood, CA

#### INSTRUCTIONS

The contractor shall submit this form daily at the close of business to the on-site COE representative. Concurrently, the contractor shall provide electronic access to the completed forms to the COE district office and the area office.

Report #: 20070524

Delivery Order #:06

Date: 5-24-2007

Weather: Mostly Sunny

Temp. (max & min): 65- 71

Rainfall (in): .00

1. Work performed today by primary contractor on site and/or off site:

- 1) Dave Allen on site at 0745 hours. Security was onsite. Edwin (EarthTech) on site ~0850 hours. Tailgate safety meeting with employees was
- 2) 0730 hrs to ~1630 hours Dave Allen was sampling wells.
- 3) 0900 hrs Hector Cervantes on site. MP on site at 0900 hrs.
- 4) 0900 hrs Dave Bartz and Chuck Satterfield on site (Alzeta representatives) to inspect FTO burner operations.
- 5) 1200 hrs FQI-402 reading 1115825 gallons.
- 6) 1300 hrs MP pumps down all condensate sumps that were high level (DPE-A, DPE-B, DPE-C, DPE-D and VE-2). DPE-D CS takes 15 minutes to pump down and water from DPE-D seems dirtier than all other CS's. All other CS's take 5 minutes or less to pump down.
- 7) 1400 Dave Bartz gets the FTO burner stabilized.
- 8) 1430 high chamber temperature alarm after getting only DPE-B online. Restarting system. Dave Bartz is working with temperature control gain to try to smooth out the problem.
- 9) 1445 hrs Edwin resumes inspection of exposition well vaults.
- 10) 1500 to 1900 Dave Bartz, MP and Edwin start up FTO three times and to get DEP-A, B, C and D lines running at 16" Hg at manifold and 18" Hg at LRP's.
- 11) 1730 MP/Edwin changed bag filters (5/1 micron) at F-403/F-404.
- 12) 1700 hrs FQI-501 reading 19605 gallons.
- 13) 1905 MP secures TC and leaves the site. FTO running. GW systems running.
- 14) Dust monitoring not performed today. The monitoring schedule includes 2 units placed at the following locations: 1) Upgradient - north side of ERH area, and 2) Downgradient - Northwest corner of Pemaco office trailer. A time-weighted average (TWA) of dust concentrations as well as maximum concentration (max.) recorded by each unit are indicated below:

Area (Unit #)	Daily	
	<u>TWA(mg/m3)</u>	<u>Max(mg/m3)</u>
Downgradient (1135)	NA	NA
Upgradient (1010)	NA	NA

2. Work performed by subcontractors on site and/or off site (include a complete description):

**RAPID RESPONSE QUALITY CONTROL DAILY REPORT CONT'D.**

Subcontractors:

**EarthTech (Subcontractor)**

**8:50 AM ~ 7:00 PM**

**(1 Technician)**

1. Working with MP/Dave Bartz and Chuck Satterfield troubleshooting FTO burner operational quirks and removing oil from F-104 (.5 gallons removed). Also drained minute quantities of oil from several locations on the process inlet piping to FTO. Completed inspection of exposition wells (EW's) including obtaining cycle counter readings at all EW's.

3. Complete and attach the daily personnel cost report at the end of this document and label as Appendix 1.

**[PROVIDED IN SEPARATE BINDER]**

4. On-site conditions which resulted in delayed progress:  
None

5. Type and results of inspections (indicate whether: P-Preparatory, I-Initial, or F-Final and include satisfactory work completed or deficiencies with action to be taken):

**Deficiencies** (Ongoing list and newly identified)

**Work Check List**

**Observed During April 10, 2007 PLC Acceptance Check**

Revised 5/23/07 1500 hours

1. Pipe Supports needed: Discharge from condensate pumps. **Completed 4/27/07.**
2. Program HMI screen to match colors of P&ID Drawings. (Previously requested.) **Mike Ebner working on 4/26/07 and 4/27/07. JW approved Monday 4/30/07.**
3. H-201 leaks in bottom gasket. See drip marks on frame as evidence. **Neil advised he corrected 4/26/07.**
4. Tag needed on H-202 valves ("Hot"). **"HOT" painted on side of H-202 4/26/07.**
5. DPIT/FE-101 is not reporting correctly on HMI screen. The pitot does not appear to be installed according to Dwyer Instruments recommendations and should be re-installed. (Currently installed in a tee) **Relocated by J&H 4/26/07.**
6. Check potable water pipes on south wall by roll up door for vibration during use. **OK per JW 4/26/07 pipes are at 10'6" and are adequately supported.**
7. P-502 secondary containment sump pump failed second time, continued shakedown testing of this pump required. Or replace pump. **Neil advised the problem was corrected. Not witnessed 4/26/07 will ask Neil to show/prove on 4/27/07.** Pump P-502 works but there seems to be a problem with the check valves on the 2" line to the T-402 as sometimes there is flow and sometimes there is not flow when pump is put in hand mode. Pump would not work consistently again today 4/30/07. **Crew took apart discharge line within the sump and shortened the length of pipe to straighten out the flexible hose. Pump ran in hand and auto several times as demonstrated by ERM/J&H. Completed 5/1/07.**

**RAPID RESPONSE QUALITY CONTROL DAILY REPORT CONT'D.**

8. Observation port (1.25 inch) identified on "Approved for Construction" Drawing C-10C, for all condensate sumps, was not installed and is required. It was needed to check water levels. **Completed 4/30/07.**

**Added to list 4/24/07:**

9. Lock out /tag out required for newly installed caustic fill line at T-901. **Completed 4/26/07.**
10. Brine tank leaks at hole located on side of tank closest to the floor. Ed Tung must be contacted by ERM. **Completed 4/30/07.**

**Added to list 4/25/07:**

11. Sample port tags at T-301/T-302 are in wrong positions. The correct identifications are written in marker pen on stainless steel valve near the tags. (SP-105, SP-106, SP-107 and SP-108). **Completed 4/26/07.**
12. T-601 auto-drain valve on bottom of tank (out of view) is leaking. **Completed 4/26/07.**
13. Valve adjacent to V-210 (on the line leading to holding tank for RC-201 on cooling tower pad) needs to be tagged out and labeled as "valve normally closed". **Completed 4/30/07.**
14. Discharge valve V-213 does not have tag. **Completed 4/30/07.**
15. Valves underneath the cooling tower need to be labeled/identified as "overflow /valve normally open" and "drain/ valve normally closed". **Completed 4/30/07.**
16. V-121 needs to open all the way it does not open all the way. It is currently locked in a partially open position. **Mark Williams took valve apart and showed MP that it seats fully. Completed 4/30/07.**
17. Label holding tank for RC-201. **Completed 4/27/07.**
18. Secure overhead water line known as "FTO Blowdown" at the 90 Deg. Ell above TIT-402 and PI-405. Thrust shakes pipe unacceptably. **Completed 4/27/07.**
19. Compressor maintenance to improve frequent low pressure alarm and error signal on compressor readout. J&H crew are already aware and have maintenance scheduled. Manufacturer's representative scheduled for Tuesday 5/1/07. Module was replaced 5/1/07. **Compressor ran without alarms for rest of day 5/1/07.**
20. Seal all building penetrations (electrical and piping penetrations). **Completed 4/30/07.**

**For Fire Department Inspection:**

21. Install a NAOH fire placard on outside of building at entrance to all 4 doors. **Completed 5/4/07.**

**New to list 5/4/07**

1. Caustic line installed by ERM/ICS near northern rollup door is leaking at a 90 degree elbow onto the concrete floor and curb. **Completed 5/9/07.**
2. Water Filter installed by ERM/ICS is leaking at the base. **Completed 5/8/07.**

**RAPID RESPONSE QUALITY CONTROL DAILY REPORT CONT'D.**

3. T-901 installed by ERM/ICS lid is missing. Needs to be replaced. **Completed 5/9/07**
4. Condensate sump VE-2 has an air/vacuum leak. Bolts are loose. There may be a leak in the inspection port recently installed by J&H. **Completed 5/3/07.**

**New to list 5/16/07**

5. T-101 has leak on flange that faces west side of TC. **Repairs completed 5/17/07.**

Certification: I CERTIFY THAT THE ABOVE REPORT IS COMPLETE AND CORRECT AND THAT I, OR MY AUTHORIZED REPRESENTATIVE, HAVE INSPECTED ALL WORK PERFORMED THIS DAY BY THE PRIMARY CONTRACTOR AND EACH SUBCONTRACTOR AND HAVE DETERMINED THAT ALL MATERIALS, EQUIPMENT, AND WORKMANSHIP ARE IN STRICT COMPLIANCE WITH THE PLANS AND SPECIFICATIONS, EXCEPT AS NOTED ABOVE.

Mark Prostko

Contractor's designated quality control representative

### RAPID RESPONSE QUALITY CONTROL DAILY REPORT

Contractor's Name: T N & Associates

Contract Number: **DACA45-00-D-0006**

Site Name & Location: Pemaco; Maywood, CA

#### INSTRUCTIONS

The contractor shall submit this form daily at the close of business to the on-site COE representative. Concurrently, the contractor shall provide electronic access to the completed forms to the COE district office and the area office.

Report #: 20070525	Delivery Order #:06	Date: 5-25-2007
Weather: Mostly Sunny	Temp. (max & min): 65- 71	Rainfall (in): .00

1. Work performed today by primary contractor on site and/or off site:
  - 1) Edwin (EarthTech) on site ~0700 hours. Dave Allen on site at 0800 hours. Security was onsite. Tailgate safety meeting with employees was review of heavy lifting procedures for handling the 50# bags of salt that will be added to the brine tank later today.
  - 2) 0800 hrs to ~1640 hours Dave Allen working on paperwork for sampling for next week and also worked on field inspection of wells.
  - 3) 0900 hrs Hector Cervantes on site.
  - 4) 0830 hrs MP stopped at Home Depot- Slauson Avenue in Vernon to pick up 15-50# bags of solar salt for brine tank then on site at 0905 hrs. Added 8 bags of salt today and brine tank is full.
  - 5) 0900 to 1230 hrs Edwin and Hector took apart FTO inlet steel pipe and flame arrestor and inspected for oil. Installed larger diameter tubing for the oil return lines between F-103/F-104 and LRP's B-101 and B-102. Took apart the oil reservoirs for B-101 and B-102 and inspected oil return lines inside these units. Everything checked out OK.
  - 6) 1300 to 1400 hrs took apart CS for DPE-D and removed stinger pipe. Removed section of stinger with holes and added check valve on bottom, reinstalled and tested out.
  - 7) 1400 hrs to 1600 hrs Edwin and MP trying to get FTO up and running.
  - 8) 1700 hrs FTO is running. DPE-A, DPE-B, DPE-C and DPE-D manifolds are open.
  - 9) 1755 hrs FTO shut down due to high chamber temperature alarm.
  - 10) 1800 hrs+ Danny Chen delivered 25/10 bag filters to the site on his way home from Ventura.
  - 11) Dust monitoring not performed today. The monitoring schedule includes 2 units placed at the following locations: 1) Upgradient - north side of ERH area, and 2) Downgradient - Northwest corner of Pemaco office trailer. A time-weighted average (TWA) of dust concentrations as well as maximum concentration (max.) recorded by each unit are indicated below:

Area (Unit #)	Daily	
	<u>TWA (mg/m3 )</u>	<u>Max (mg/m3 )</u>
Downgradient (1135)	NA	NA
Upgradient (1010)	NA	NA

**RAPID RESPONSE QUALITY CONTROL DAILY REPORT CONT'D.**

2. Work performed by subcontractors on site and/or off site (include a complete description):

Subcontractors:

**EarthTech (Subcontractor)**

**7:00 AM ~ 7:00 PM**

**(1 Technician)**

1. Working with MP running GW and FTO systems. Also drained small quantities of oil from several locations on the process inlet piping to FTO and prior to the flame arrestor on the FTO. Helped MP add salt to brine tank and helped MP change bag filters at F-401/F-402 (25/10) and F-403/F-404 (5/1). Installed check valve on DPE-D suction line in CS. Secured site for weekend.

3. Complete and attach the daily personnel cost report at the end of this document and label as Appendix 1.

**[PROVIDED IN SEPARATE BINDER]**

4. On-site conditions which resulted in delayed progress:  
None

5. Type and results of inspections (indicate whether: P-Preparatory, I-Initial, or F-Final and include satisfactory work completed or deficiencies with action to be taken):

**Deficiencies** (Ongoing list and newly identified)

**Work Check List**

**Observed During April 10, 2007 PLC Acceptance Check**

Revised 5/23/07 1500 hours

1. Pipe Supports needed: Discharge from condensate pumps. **Completed 4/27/07.**
2. Program HMI screen to match colors of P&ID Drawings. (Previously requested.) **Mike Ebner working on 4/26/07 and 4/27/07. JW approved Monday 4/30/07.**
3. H-201 leaks in bottom gasket. See drip marks on frame as evidence. **Neil advised he corrected 4/26/07.**
4. Tag needed on H-202 valves ("Hot"). **"HOT" painted on side of H-202 4/26/07.**
5. DPIT/FE-101 is not reporting correctly on HMI screen. The pitot does not appear to be installed according to Dwyer Instruments recommendations and should be re-installed. (Currently installed in a tee) **Relocated by J&H 4/26/07.**
6. Check potable water pipes on south wall by roll up door for vibration during use. **OK per JW 4/26/07 pipes are at 10'6" and are adequately supported.**
7. P-502 secondary containment sump pump failed second time, continued shakedown testing of this pump required. Or replace pump. **Neil advised the problem was corrected. Not witnessed 4/26/07 will ask Neil to show/prove on 4/27/07.** Pump P-502 works but there seems to be a problem with the check valves on the 2" line to the T-402 as sometimes there is flow and sometimes there is not flow when pump is put in hand mode. Pump would not work consistently again today 4/30/07. **Crew took apart discharge line within the sump and shortened the length of pipe to straighten out the flexible hose. Pump ran in hand and auto several times as demonstrated by ERM/J&H. Completed 5/1/07.**

**RAPID RESPONSE QUALITY CONTROL DAILY REPORT CONT'D.**

8. Observation port (1.25 inch) identified on "Approved for Construction" Drawing C-10C, for all condensate sumps, was not installed and is required. It was needed to check water levels. **Completed 4/30/07.**

**Added to list 4/24/07:**

9. Lock out /tag out required for newly installed caustic fill line at T-901. **Completed 4/26/07.**
10. Brine tank leaks at hole located on side of tank closest to the floor. Ed Tung must be contacted by ERM. **Completed 4/30/07.**

**Added to list 4/25/07:**

11. Sample port tags at T-301/T-302 are in wrong positions. The correct identifications are written in marker pen on stainless steel valve near the tags. (SP-105, SP-106, SP-107 and SP-108). **Completed 4/26/07.**
12. T-601 auto-drain valve on bottom of tank (out of view) is leaking. **Completed 4/26/07.**
13. Valve adjacent to V-210 (on the line leading to holding tank for RC-201 on cooling tower pad) needs to be tagged out and labeled as "valve normally closed". **Completed 4/30/07.**
14. Discharge valve V-213 does not have tag. **Completed 4/30/07.**
15. Valves underneath the cooling tower need to be labeled/identified as "overflow /valve normally open" and "drain/ valve normally closed". **Completed 4/30/07.**
16. V-121 needs to open all the way it does not open all the way. It is currently locked in a partially open position. **Mark Williams took valve apart and showed MP that it seats fully. Completed 4/30/07.**
17. Label holding tank for RC-201. **Completed 4/27/07.**
18. Secure overhead water line known as "FTO Blowdown" at the 90 Deg. Ell above TIT-402 and PI-405. Thrust shakes pipe unacceptably. **Completed 4/27/07.**
19. Compressor maintenance to improve frequent low pressure alarm and error signal on compressor readout. J&H crew are already aware and have maintenance scheduled. Manufacturer's representative scheduled for Tuesday 5/1/07. Module was replaced 5/1/07. **Compressor ran without alarms for rest of day 5/1/07.**
20. Seal all building penetrations (electrical and piping penetrations). **Completed 4/30/07.**

**For Fire Department Inspection:**

21. Install a NAOH fire placard on outside of building at entrance to all 4 doors. **Completed 5/4/07.**

**New to list 5/4/07**

1. Caustic line installed by ERM/ICS near northern rollup door is leaking at a 90 degree elbow onto the concrete floor and curb. **Completed 5/9/07.**
2. Water Filter installed by ERM/ICS is leaking at the base. **Completed 5/8/07.**
3. T-901 installed by ERM/ICS lid is missing. Needs to be replaced. **Completed 5/9/07**

**RAPID RESPONSE QUALITY CONTROL DAILY REPORT CONT'D.**

4. Condensate sump VE-2 has an air/vacuum leak. Bolts are loose. There may be a leak in the inspection port recently installed by J&H. **Completed 5/3/07.**

**New to list 5/16/07**

5. T-101 has leak on flange that faces west side of TC. **Repairs completed 5/17/07.**

**New to list 5/25/07**

6. High voltage error on the potable water booster pump VFD display.  
7. P-402 VFD failure (pump that pumps down T-402 holding tank).

Certification: I CERTIFY THAT THE ABOVE REPORT IS COMPLETE AND CORRECT AND THAT I, OR MY AUTHORIZED REPRESENTATIVE, HAVE INSPECTED ALL WORK PERFORMED THIS DAY BY THE PRIMARY CONTRACTOR AND EACH SUBCONTRACTOR AND HAVE DETERMINED THAT ALL MATERIALS, EQUIPMENT, AND WORKMANSHIP ARE IN STRICT COMPLIANCE WITH THE PLANS AND SPECIFICATIONS, EXCEPT AS NOTED ABOVE.

\_\_\_\_\_  
Mark Prostko

Contractor's designated quality control representative

**RAPID RESPONSE QUALITY CONTROL DAILY REPORT**

Contractor's Name: T N &amp; Associates

Contract Number: **DACA45-00-D-0006**

Site Name &amp; Location: Pemaco; Maywood, CA

**INSTRUCTIONS**

The contractor shall submit this form daily at the close of business to the on-site COE representative. Concurrently, the contractor shall provide electronic access to the completed forms to the COE district office and the area office.

Report #: 20070529

Delivery Order #:06

Date: 5-29-2007

Weather: Mostly Sunny

Temp. (max &amp; min): 65- 72

Rainfall (in): .00

## 1. Work performed today by primary contractor on site and/or off site:

- 1) Edwin (EarthTech) on site ~0700 hours. MP on site at 0800 hours. Security was onsite. Tailgate safety meeting with employees was a discussion about the steel well vaults that are being accessed today for GW sampling. They are hazards with respect to pinch points and also there are known black widow spiders on site. Vaults are notorious locations for black widow spider dens.
- 2) 0900 Jonathan Colomb, Jacques Marcillac and Tony Simons on site for TN&A. MP gave TN&A crew tour of plant and description of current operations including safety hazards associated with all systems currently operational inside the TC.
- 3) 0900 hrs to ~1900 hours Dave Allen working with Jacques Marcillac, Tony Simons and Jonathan Colomb on GW sampling.
- 4) 1100 hrs Hector Cervantes on site.
- 5) 1100 hrs Dave Mango (City of Maywood) on site. Dave Mango met with Jacques and MP and gave verbal approval to sample the soil stockpile on site.
- 6) 1100 to 1800 hrs MP and Edwin running FTO system and pumping down condensate sumps DPE-A, DPE-B, DPE-C and DPE-D.
- 7) ~1700 hrs MP changed bag filters at F-403/F-404 (5/1 x 2 filters).
- 8) 1730 hrs MP and Hector changed bag filters at F-401/F-402 (25/10 x 5 filters)
- 9) 1805 hrs FTO shut down on high chamber temperature alarm. MP and Hector shut system down for overnight period.
- 10) Dust monitoring not performed today. The monitoring schedule includes 2 units placed at the following locations: 1) Upgradient - north side of ERH area, and 2) Downgradient - Northwest corner of Pemaco office trailer. A time-weighted average (TWA) of dust concentrations as well as maximum concentration (max.) recorded by each unit are indicated below:

Area (Unit #)	Daily	
	<u>TWA(mg/m3)</u>	<u>Max(mg/m3)</u>
Downgradient (1135)	NA	NA
Upgradient (1010)	NA	NA

**RAPID RESPONSE QUALITY CONTROL DAILY REPORT CONT'D.**

2. Work performed by subcontractors on site and/or off site (include a complete description):

Subcontractors:

**EarthTech (Subcontractor)**

**7:00 AM ~ 6:15 PM**

**(1 Technician)**

1. Working with MP running GW and FTO systems. Worked on Condensate Sumps DPE-A and DPE-D. Tried to use electric sump pump in DPE-A with automatic float switch while FTO was running to supplement pump down of CS. Pump only works at low of no vacuum. Spent most of the day pumping down condensate sumps DPE-A, DPE-B, DPE-C and DPE-D.

3. Complete and attach the daily personnel cost report at the end of this document and label as Appendix 1.

**[PROVIDED IN SEPARATE BINDER]**

4. On-site conditions which resulted in delayed progress:  
None

5. Type and results of inspections (indicate whether: P-Preparatory, I-Initial, or F-Final and include satisfactory work completed or deficiencies with action to be taken):

**Deficiencies** (Ongoing list and newly identified)

**Work Check List**

**Observed During April 10, 2007 PLC Acceptance Check**

Revised 5/23/07 1500 hours

1. Pipe Supports needed: Discharge from condensate pumps. **Completed 4/27/07.**
2. Program HMI screen to match colors of P&ID Drawings. (Previously requested.) **Mike Ebner working on 4/26/07 and 4/27/07. JW approved Monday 4/30/07.**
3. H-201 leaks in bottom gasket. See drip marks on frame as evidence. **Neil advised he corrected 4/26/07.**
4. Tag needed on H-202 valves ("Hot"). **"HOT" painted on side of H-202 4/26/07.**
5. DPIT/FE-101 is not reporting correctly on HMI screen. The pitot does not appear to be installed according to Dwyer Instruments recommendations and should be re-installed. (Currently installed in a tee) **Relocated by J&H 4/26/07.**
6. Check potable water pipes on south wall by roll up door for vibration during use. **OK per JW 4/26/07 pipes are at 10'6" and are adequately supported.**
7. P-502 secondary containment sump pump failed second time, continued shakedown testing of this pump required. Or replace pump. **Neil advised the problem was corrected. Not witnessed 4/26/07 will ask Neil to show/prove on 4/27/07.** Pump P-502 works but there seems to be a problem with the check valves on the 2" line to the T-402 as sometimes there is flow and sometimes there is not flow when pump is put in hand mode. Pump would not work consistently again today 4/30/07. **Crew took apart discharge line within the sump and shortened the length of pipe to straighten out the flexible hose. Pump ran in hand and auto several times as demonstrated by ERM/J&H. Completed 5/1/07.**

**RAPID RESPONSE QUALITY CONTROL DAILY REPORT CONT'D.**

8. Observation port (1.25 inch) identified on "Approved for Construction" Drawing C-10C, for all condensate sumps, was not installed and is required. It was needed to check water levels. **Completed 4/30/07.**

**Added to list 4/24/07:**

9. Lock out /tag out required for newly installed caustic fill line at T-901. **Completed 4/26/07.**
10. Brine tank leaks at hole located on side of tank closest to the floor. Ed Tung must be contacted by ERM. **Completed 4/30/07.**

**Added to list 4/25/07:**

11. Sample port tags at T-301/T-302 are in wrong positions. The correct identifications are written in marker pen on stainless steel valve near the tags. (SP-105, SP-106, SP-107 and SP-108). **Completed 4/26/07.**
12. T-601 auto-drain valve on bottom of tank (out of view) is leaking. **Completed 4/26/07.**
13. Valve adjacent to V-210 (on the line leading to holding tank for RC-201 on cooling tower pad) needs to be tagged out and labeled as "valve normally closed". **Completed 4/30/07.**
14. Discharge valve V-213 does not have tag. **Completed 4/30/07.**
15. Valves underneath the cooling tower need to be labeled/identified as "overflow /valve normally open" and "drain/ valve normally closed". **Completed 4/30/07.**
16. V-121 needs to open all the way it does not open all the way. It is currently locked in a partially open position. **Mark Williams took valve apart and showed MP that it seats fully. Completed 4/30/07.**
17. Label holding tank for RC-201. **Completed 4/27/07.**
18. Secure overhead water line known as "FTO Blowdown" at the 90 Deg. Ell above TIT-402 and PI-405. Thrust shakes pipe unacceptably. **Completed 4/27/07.**
19. Compressor maintenance to improve frequent low pressure alarm and error signal on compressor readout. J&H crew are already aware and have maintenance scheduled. Manufacturer's representative scheduled for Tuesday 5/1/07. Module was replaced 5/1/07. **Compressor ran without alarms for rest of day 5/1/07.**
20. Seal all building penetrations (electrical and piping penetrations). **Completed 4/30/07.**

**For Fire Department Inspection:**

21. Install a NAOH fire placard on outside of building at entrance to all 4 doors. **Completed 5/4/07.**

**New to list 5/4/07**

1. Caustic line installed by ERM/ICS near northern rollup door is leaking at a 90 degree elbow onto the concrete floor and curb. **Completed 5/9/07.**
2. Water Filter installed by ERM/ICS is leaking at the base. **Completed 5/8/07.**

**RAPID RESPONSE QUALITY CONTROL DAILY REPORT CONT'D.**

3. T-901 installed by ERM/ICS lid is missing. Needs to be replaced. **Completed 5/9/07**
4. Condensate sump VE-2 has an air/vacuum leak. Bolts are loose. There may be a leak in the inspection port recently installed by J&H. **Completed 5/3/07.**

**New to list 5/16/07**

5. T-101 has leak on flange that faces west side of TC. **Repairs completed 5/17/07.**

**New to list 5/25/07**

6. High voltage error on the potable water booster pump VFD display.
7. P-402 VFD failure (pump that pumps down T-402 holding tank).
8. High Level indicator switch for CS DPE-A not working. Always reads high level. **(discovered 5/29/07).**

Certification: I CERTIFY THAT THE ABOVE REPORT IS COMPLETE AND CORRECT AND THAT I, OR MY AUTHORIZED REPRESENTATIVE, HAVE INSPECTED ALL WORK PERFORMED THIS DAY BY THE PRIMARY CONTRACTOR AND EACH SUBCONTRACTOR AND HAVE DETERMINED THAT ALL MATERIALS, EQUIPMENT, AND WORKMANSHIP ARE IN STRICT COMPLIANCE WITH THE PLANS AND SPECIFICATIONS, EXCEPT AS NOTED ABOVE.

\_\_\_\_\_  
Mark Prostko

Contractor's designated quality control representative

## RAPID RESPONSE QUALITY CONTROL DAILY REPORT

Contractor's Name: T N & Associates

Contract Number: **DACA45-00-D-0006**

Site Name & Location: Pemaco; Maywood, CA

### INSTRUCTIONS

The contractor shall submit this form daily at the close of business to the on-site COE representative. Concurrently, the contractor shall provide electronic access to the completed forms to the COE district office and the area office.

Report #: 20070530

Delivery Order #:06

Date: 5-30-2007

Weather: Mostly Sunny

Temp. (max & min): 65- 72

Rainfall (in): .00

1. Work performed today by primary contractor on site and/or off site:

- 1) Dave Allen on site at 0705 hrs. Edwin (EarthTech) on site ~0725 hours.  
0725 hrs Jonathan Colomb and Tony Simons on site for TN&A Tailgate safety meeting with site crew was a discussion about personal decontamination after sampling groundwater wells and prior to eating lunch.
- 2) 0715 hrs to ~1830 hours Jacques Marcillac working with Dave Allen, Jonathan Colomb and Tony Simons with GW sampling and also spent time working with Edwin and MP inspecting perched zone wells.
- 3) 0725 hrs to ~1730 hrs Jonathan Colomb and Tony Simons sampled the following wells (5/29/07 wells sampled were DA-02, DA-03, DB-02, DB-03, DB-07, Trip blank). Wells sampled today 5/30/07 MW-07-130, MW-07-130A, MW-07-75, MW-23-110 and MW-25-145.
- 4) 0800 to 1030 hrs Edwin started up FTO and ran system. Edwin lowered set point on FTO to 1500 degrees.
- 5) 1030 hrs MP on site. Reading FQI-402 is 1338898 gallons and FQI-501 is 23567 gallons.
- 6) 1030 to 2000 hrs MP and Edwin running FTO system and pumping down condensate sumps DPE-A, DPE-B, DPE-C and DPE-D.
- 7) 1100 hrs to 1805 hrs Edwin and MP opened up all vaults for perched zone wells and inspected for vacuum readings and water flow. At locations PB-03, PB-04, PB-05, PB-07, PC-06 and PD-09 there was no vacuum at that location. Crew pulled stinger pipe up 10' to get vacuum to work and water to flow. At PD-04 the vault was flooded due to park sprinklers. Water is not draining out of PD-04 as this vault may be set on top of a geomembrane installed by others. Will work on solutions for draining the vault.
- 8) 1805 hrs FTO shut down on high chamber temperature alarm while MP and Edwin were removing a stinger from one of perched zone well (PD-04). MP and Edwin restarted the FTO and pumped down condensate sumps.
- 9) 1820 hrs MP and Jacques Marcillac collected and stored samples of GW-1, GW-2 and GW-3 for visual observations (no lab work).
- 10) 1830 hrs to 2000 hrs MP operated FTO and GW systems. Pumped down condensate sumps DPE-B and DPE-D prior to securing the TC building. Left the FTO running and left double diaphragm pumps on at DPE-B and DPE-D. DPE-D producing the most water today. DPE-A, DPE-B, DPE-C and DPE-D running at 19" Hg. Blower temperature 180 degrees. Checked for oil in FTO inlet prior to leaving. No signs of oil near FTO inlet.

**RAPID RESPONSE QUALITY CONTROL DAILY REPORT CONT'D.**

- 11) Dust monitoring not performed today. The monitoring schedule includes 2 units placed at the following locations: 1) Upgradient - north side of ERH area, and 2) Downgradient - Northwest corner of Pemaco office trailer. A time-weighted average (TWA) of dust concentrations as well as maximum concentration (max.) recorded by each unit are indicated below:

Area (Unit #)	Daily	
	TWA (mg/m3 )	Max (mg/m3 )
Downgradient (1135)	NA	NA
Upgradient (1010)	NA	NA

2. Work performed by subcontractors on site and/or off site (include a complete description):

Subcontractors:

**EarthTech (Subcontractor)**

**7:25 AM ~ 6:45 PM**

**(1 Technician)**

- Working with MP running GW and FTO systems. Worked on inspection of all perched zone wells to monitor vacuum and flow at each location. Made adjustments at several locations (mentioned above) to get stingers to work. (Water flowing and vacuum working inside the stingers).

3. Complete and attach the daily personnel cost report at the end of this document and label as Appendix 1.

**[PROVIDED IN SEPARATE BINDER]**

4. On-site conditions which resulted in delayed progress:  
None

5. Type and results of inspections (indicate whether: P-Preparatory, I-Initial, or F-Final and include satisfactory work completed or deficiencies with action to be taken):

**Deficiencies** (Ongoing list and newly identified)

**Work Check List**

**Observed During April 10, 2007 PLC Acceptance Check**

Revised 5/23/07 1500 hours

- Pipe Supports needed: Discharge from condensate pumps. **Completed 4/27/07.**
- Program HMI screen to match colors of P&ID Drawings. (Previously requested.) **Mike Ebner working on 4/26/07 and 4/27/07. JW approved Monday 4/30/07.**
- H-201 leaks in bottom gasket. See drip marks on frame as evidence. **Neil advised he corrected 4/26/07.**
- Tag needed on H-202 valves ("Hot"). **"HOT" painted on side of H-202 4/26/07.**
- DPIT/FE-101 is not reporting correctly on HMI screen. The pitot does not appear to be installed according to Dwyer Instruments recommendations and should be re-installed. (Currently installed in a tee) **Relocated by J&H 4/26/07.**

**RAPID RESPONSE QUALITY CONTROL DAILY REPORT CONT'D.**

6. Check potable water pipes on south wall by roll up door for vibration during use. **OK per JW 4/26/07 pipes are at 10'6" and are adequately supported.**
7. P-502 secondary containment sump pump failed second time, continued shakedown testing of this pump required. Or replace pump. **Neil advised the problem was corrected. Not witnessed 4/26/07 will ask Neil to show/prove on 4/27/07.** Pump P-502 works but there seems to be a problem with the check valves on the 2" line to the T-402 as sometimes there is flow and sometimes there is not flow when pump is put in hand mode. Pump would not work consistently again today 4/30/07. **Crew took apart discharge line within the sump and shortened the length of pipe to straighten out the flexible hose. Pump ran in hand and auto several times as demonstrated by ERM/J&H. Completed 5/1/07.**
8. Observation port (1.25 inch) identified on "Approved for Construction" Drawing C-10C, for all condensate sumps, was not installed and is required. It was needed to check water levels. **Completed 4/30/07.**

**Added to list 4/24/07:**

9. Lock out /tag out required for newly installed caustic fill line at T-901. **Completed 4/26/07.**
10. Brine tank leaks at hole located on side of tank closest to the floor. Ed Tung must be contacted by ERM. **Completed 4/30/07.**

**Added to list 4/25/07:**

11. Sample port tags at T-301/T-302 are in wrong positions. The correct identifications are written in marker pen on stainless steel valve near the tags. (SP-105, SP-106, SP-107 and SP-108). **Completed 4/26/07.**
12. T-601 auto-drain valve on bottom of tank (out of view) is leaking. **Completed 4/26/07.**
13. Valve adjacent to V-210 (on the line leading to holding tank for RC-201 on cooling tower pad) needs to be tagged out and labeled as "valve normally closed". **Completed 4/30/07.**
14. Discharge valve V-213 does not have tag. **Completed 4/30/07.**
15. Valves underneath the cooling tower need to be labeled/identified as "overflow /valve normally open" and "drain/ valve normally closed". **Completed 4/30/07.**
16. V-121 needs to open all the way it does not open all the way. It is currently locked in a partially open position. **Mark Williams took valve apart and showed MP that it seats fully. Completed 4/30/07.**
17. Label holding tank for RC-201. **Completed 4/27/07.**
18. Secure overhead water line known as "FTO Blowdown" at the 90 Deg. Ell above TIT-402 and PI-405. Thrust shakes pipe unacceptably. **Completed 4/27/07.**
19. Compressor maintenance to improve frequent low pressure alarm and error signal on compressor readout. J&H crew are already aware and have maintenance scheduled. Manufacturer's representative scheduled for Tuesday 5/1/07. Module was replaced 5/1/07. **Compressor ran without alarms for rest of day 5/1/07.**

**RAPID RESPONSE QUALITY CONTROL DAILY REPORT CONT'D.**

20. Seal all building penetrations (electrical and piping penetrations). **Completed 4/30/07.**

**For Fire Department Inspection:**

21. Install a NAOH fire placard on outside of building at entrance to all 4 doors. **Completed 5/4/07.**

**New to list 5/4/07**

1. Caustic line installed by ERM/ICS near northern rollup door is leaking at a 90 degree elbow onto the concrete floor and curb. **Completed 5/9/07.**
2. Water Filter installed by ERM/ICS is leaking at the base. **Completed 5/8/07.**
3. T-901 installed by ERM/ICS lid is missing. Needs to be replaced. **Completed 5/9/07**
4. Condensate sump VE-2 has an air/vacuum leak. Bolts are loose. There may be a leak in the inspection port recently installed by J&H. **Completed 5/3/07.**

**New to list 5/16/07**

5. T-101 has leak on flange that faces west side of TC. **Repairs completed 5/17/07.**

**New to list 5/25/07**

6. High voltage error on the potable water booster pump VFD display.
7. P-402 VFD failure (pump that pumps down T-402 holding tank).

**New to list 5/29/07**

8. High Level indicator switch for CS DPE-A not working. Always reads high level. **(5/29/07).**
9. PD-04 well vault is being flooded by the park irrigation sprinklers. **(5/30/07).**

Certification: I CERTIFY THAT THE ABOVE REPORT IS COMPLETE AND CORRECT AND THAT I, OR MY AUTHORIZED REPRESENTATIVE, HAVE INSPECTED ALL WORK PERFORMED THIS DAY BY THE PRIMARY CONTRACTOR AND EACH SUBCONTRACTOR AND HAVE DETERMINED THAT ALL MATERIALS, EQUIPMENT, AND WORKMANSHIP ARE IN STRICT COMPLIANCE WITH THE PLANS AND SPECIFICATIONS, EXCEPT AS NOTED ABOVE.

Mark Prostko

Contractor's designated quality control representative

### RAPID RESPONSE QUALITY CONTROL DAILY REPORT

Contractor's Name: T N & Associates

Contract Number: **DACA45-00-D-0006**

Site Name & Location: Pemaco; Maywood, CA

#### INSTRUCTIONS

The contractor shall submit this form daily at the close of business to the on-site COE representative. Concurrently, the contractor shall provide electronic access to the completed forms to the COE district office and the area office.

Report #: 20070531

Delivery Order #:06

Date: 5-31-2007

Weather: Partly Sunny

Temp. (max & min): 64- 73

Rainfall (in): .00

1. Work performed today by primary contractor on site and/or off site:

- 1) Dave Allen on site at 0700 hrs. Edwin (EarthTech) on site ~0730 hours. 0725 hrs Jonathan Colomb, Tony Simons and Mark Wanek on site for TN&A Tailgate safety meeting. Black widow spiders were located in some of the perched zone well vaults inside the park. The crews were again reminded about this.
- 2) 0730 hrs to ~1800 hours Dave Allen, Jonathan Colomb and Tony Simons worked on GW sampling and also spent time working with Edwin and MP inspecting perched zone wells. The following wells sampled today 5/31/07 are MW-05-85, MW-05-135, MW-05-105, MW-05-105X, MW-10-90, MW-10-75, MW-10-170, MW-10-110, MW-06-85, and MW-08-85.
- 3) MP on site at ~0900 hrs. Reading FQI-402 is 1395285 gallons and FQI-501 is 27035 gallons.
- 4) 0800 to 1000 hrs Edwin started up FTO and ran system. Edwin left site for one hour when MP showed up at 0900 hrs.
- 5) Hector Cervantes on site 1000 hrs. Hector picked up 15-50# bags of salt for brine tank and GW water softener.
- 6) 1030 to 1500 hrs MP and Edwin running FTO system and pumping down condensate sumps DPE-A, DPE-B, DPE-C and DPE-D.
- 7) 1200 hrs MP added 11-50# bags of salt to brine tank.
- 8) 1300 hrs JW on site. JW walked the TC with Edwin and MP to get complete update on system operations and problems.
- 9) 1330 hrs Hector changed bag filters at F-403/F-404 (5/1 x 2).
- 10) 1500 hrs to 1800 hrs Brian Dean (EarthTech) and Jacob B. (EarthTech) on site to observe FTO operations.
- 11) 1800 to 2100 hrs MP and JW ran the FTO system while Dave Allen and Hector took Summa canisters on manifold. JW and MP turned on VE-1, VE-2, VE-3 and VE-4 for one hour.
- 12) 1830 hrs MP and Hector changed bag filters at F-401/F-402 (25/10 x 5)
- 13) 2100 hrs MP and JW secured TC Building and left the FTO running with DPE-A, DPE-B and DPE-C at 18" Hg. DPE-D was left at 14" Hg. System running fine.
- 14) Dust monitoring not performed today. The monitoring schedule includes 2 units placed at the following locations: 1) Upgradient - north side of ERH area, and 2) Downgradient - Northwest corner of Pemaco office trailer. A time-weighted average (TWA) of dust concentrations as well as maximum concentration (max.) recorded by each unit are indicated below:

**RAPID RESPONSE QUALITY CONTROL DAILY REPORT CONT'D.**

Area (Unit #)	Daily	
	TWA (mg/m3 )	Max (mg/m3 )
Downgradient (1135)	NA	NA
Upgradient (1010)	NA	NA

2. Work performed by subcontractors on site and/or off site (include a complete description):

Subcontractors:

**EarthTech (Subcontractor)**

**7:30 AM ~ 6:30 PM**

**(1 Technician)**

1. Working with MP running GW and FTO systems. Brian Dean and Jacob from EarthTech on site to make observations on the operations of the FTO system. Crew ran FTO on dilution air only for one hour to observe temperature response at FTO. Crew then put DPE-A, B, C and D back on line and reduced vacuum at DPE-D as that line is most sensitive to fluctuating conditions.

3. Complete and attach the daily personnel cost report at the end of this document and label as Appendix 1.

**[PROVIDED IN SEPARATE BINDER]**

4. On-site conditions which resulted in delayed progress:  
None

5. Type and results of inspections (indicate whether: P-Preparatory, I-Initial, or F-Final and include satisfactory work completed or deficiencies with action to be taken):

**Deficiencies** (Ongoing list and newly identified)

**Work Check List**

**New to list 5/25/07**

1. High voltage error on the potable water booster pump VFD display.
2. P-402 VFD failure (pump that pumps down T-402 holding tank).

**New to list 5/29/07**

3. High Level indicator switch for CS DPE-A not working. Always reads high level. (5/29/07).
4. PD-04 well vault is being flooded by the park irrigation sprinklers. (5/30/07).

Certification: I CERTIFY THAT THE ABOVE REPORT IS COMPLETE AND CORRECT AND THAT I, OR MY AUTHORIZED REPRESENTATIVE, HAVE INSPECTED ALL WORK PERFORMED THIS DAY BY THE PRIMARY CONTRACTOR AND EACH SUBCONTRACTOR AND HAVE DETERMINED THAT ALL MATERIALS, EQUIPMENT, AND WORKMANSHIP ARE IN STRICT COMPLIANCE WITH THE PLANS AND SPECIFICATIONS, EXCEPT AS NOTED ABOVE.

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Contractor's designated quality control representative